

RF/RMRS-99-478.UN

**QUARTERLY REPORT  
FOR THE  
ROCKY FLATS GROUNDWATER PLUME  
TREATMENT SYSTEMS**

**October through December 1999**

**December 29, 1999**



DOE REPORT  
1101-B-00056

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## ACRONYM LIST

|       |                                       |
|-------|---------------------------------------|
| DOE   | Department of Energy                  |
| EM-50 | DOE Subsurface Contaminant Focus Area |
| EPA   | Environmental Protection Agency       |
| ITS   | Interceptor Trench System             |
| pCi/l | Picocuries per liter                  |
| RFCA  | Rocky Flats Cleanup Agreement         |
| RMRS  | Rocky Mountain Remediation Services   |
| ug/l  | Micrograms per liter                  |
| VOCs  | Volatile Organic Compounds            |

## 1.0 INTRODUCTION

Three reactive barriers were installed at the Rocky Flats Environmental Technology Site for the Mound Site Plume, the East Trenches Plume and the Solar Ponds Plume. These reactive barriers are designed to protect surface water and to treat contaminated groundwater to levels consistent with unrestricted discharge. These systems were installed near the distal ends of the plumes to intercept groundwater prior to entering surface water and are effective in low flow, low permeability regimes.

This report covers the activity and available data for these treatment systems for the quarter from October 1 through December 31, 1999. Included in this report are the analytical results for samples collected during the previous quarter, but which were not available for the last report.

## 2.0 MOUND SITE PLUME TREATMENT SYSTEM

The Mound Site Plume Treatment System was designed to collect and treat contaminated groundwater derived from the Mound Site to the Groundwater Action Level Framework Tier II level concentrations defined in the Rocky Flats Cleanup Agreement (RFCA) (DOE, 1996). The effectiveness and feasibility of using this type of system on other contaminated groundwater plumes was demonstrated on this project. The Mound Site Plume Treatment System employs innovative technology for the collection and treatment of contaminated groundwater containing chlorinated organic contamination and low levels of radionuclides. The Mound Site Plume System components are shown on Figure 1.

The Mound Site Plume Treatment Project was a cooperative effort between Rocky Flats and the Department of Energy Subsurface Contaminant Focus Area (EM-50), with support from the US Environmental Protection Agency (EPA) SITE Program. Additional funds were provided by EM-50 in Fiscal Year (FY) 2000 to continue additional sampling beyond that required by the Mound Site Plume Decision Document (DOE 1997).

### 2.1 Project Events

Site personnel continue to rake the iron media in the two treatment cells. Water level monitoring and sample collection by the EPA SITE Program is also continuing (performed by Tetra Tech). Each of the two treatment cells contain 4 feet of iron filings that act as the treatment medium for the contaminated water. The mixture of 10% iron and 90% pea gravel which was added to Reactor 1 on July 19, 1999 is easier to rake than the previous 50/50 mixture of gravel and iron. The media is being raked on a weekly basis and, to date, no additional crust appears to be forming. Probing beneath this layer indicates that a crust is not forming at depth.

### 2.2 Treatment Effectiveness

Treatment system flow rates for the October through December period are shown on Figure 2. The total volume of groundwater flow through the system as of December 24, 1999 was 370,009 gallons. The volume for September 19, 1999 through December 24, 1999 was 141,289 gallons, substantially higher than the 84,613 gallons recorded last quarter. The recorded flow rate ranged from 0.67 to 1.61 gallons per minute and averaged 1.02 gallons per minute.

## SYSYTEM LOCATIONS

Locality-Based Environmental Technology Guide

Geeky Ninja's Educational Technology Blog

EDUCATION

Extreme Ground Water Well

ଅଧ୍ୟାତ୍ମିକ

2000-01

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1000-10000 m<sup>2</sup> yr<sup>-1</sup>

ANSWER

Din roads

4.000 dollars to 250,000 per household (1.5% ownership);  
A household with one or more children under 18 years old.

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[www.industryweek.com](http://www.industryweek.com)

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36:2 BORN TO BE KING

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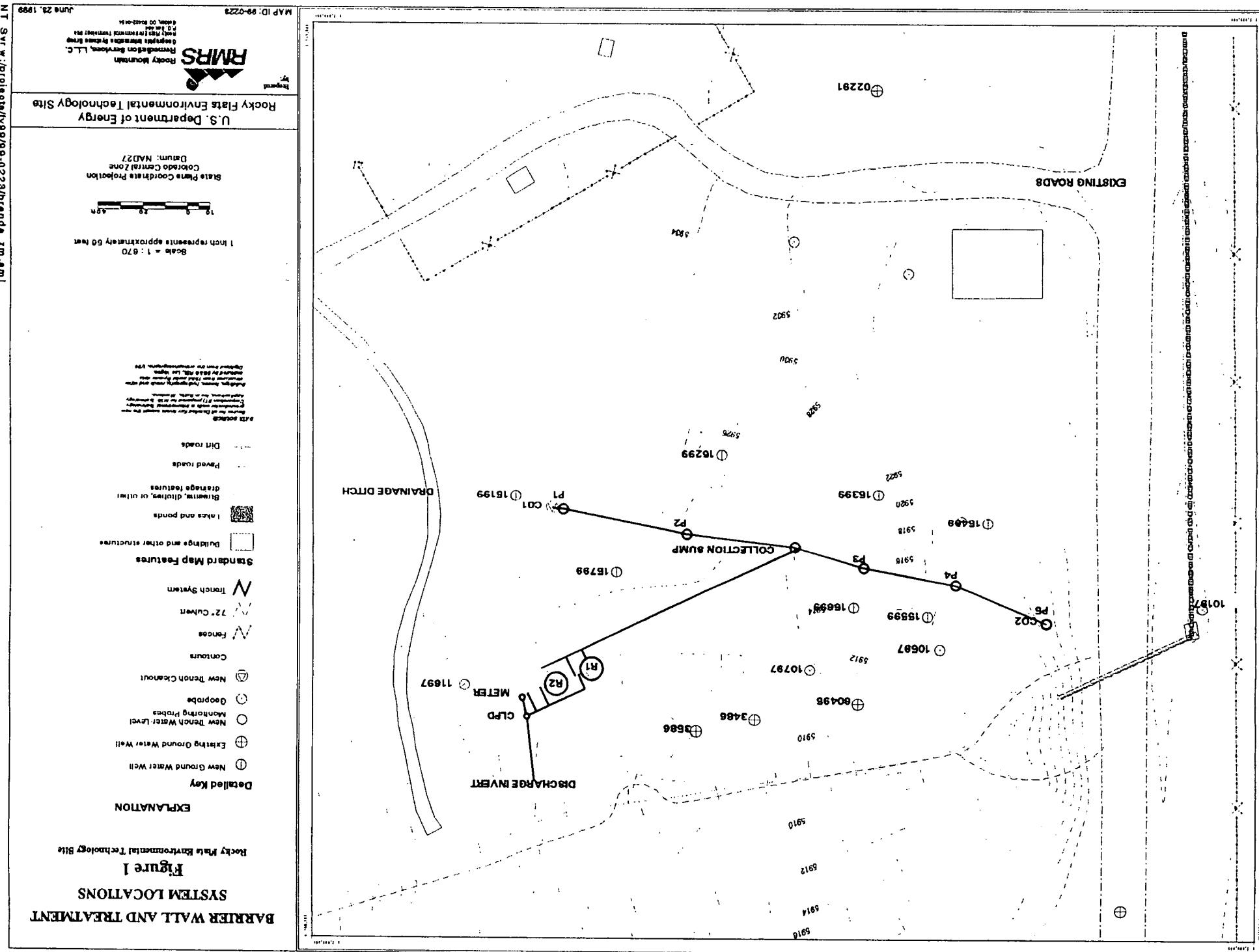
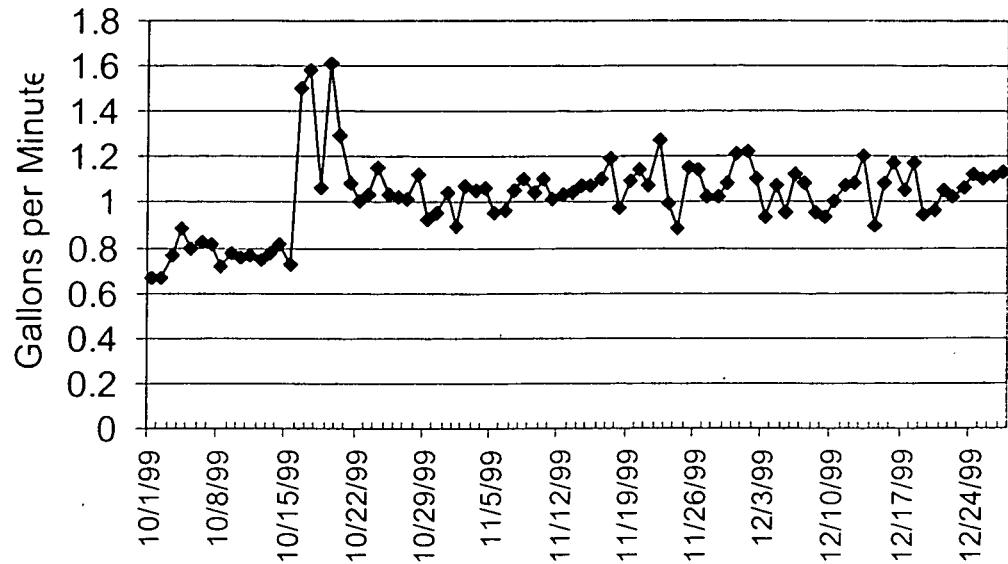


Figure 2: Mound Plume Treatment System Flow Rates, October through December 1999



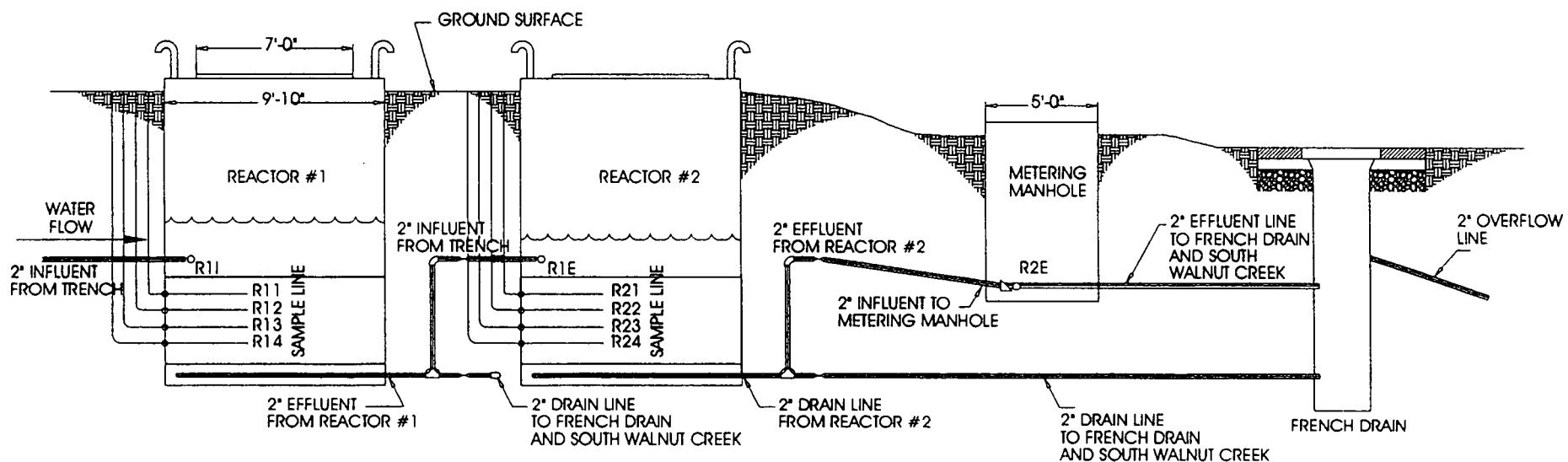
Water levels within the collection trench are monitored at five piezometers (P1 through P5) and were measured monthly. Water levels in the piezometers upgradient and downgradient of the collection trench were measured quarterly. Locations are shown on Figure 1 with the results shown in Table 1. The water levels in the collection trench piezometers remained constant for this time period.

Table 1. Mound Plume Piezometer Water Levels (in feet below top of casing)

| Trench Piezometers | Upgradient/Downgradient Piezometers |          |          |       | 10/7/99 | 12/1/99 |
|--------------------|-------------------------------------|----------|----------|-------|---------|---------|
|                    | 9/29/99                             | 10/26/99 | 11/30/99 |       | 10/7/99 | 12/1/99 |
| P1 (East)          | Dry                                 | Dry      | Dry      | 15199 | 6.67    | NM      |
| P2                 | 11.93                               | 11.96    | 11.98    | 15299 | 11.05   | NM      |
| P3                 | 9.47                                | 9.47     | 9.47     | 15399 | 4.25    | NM      |
| P4                 | 9.51                                | 9.51     | 9.50     | 15499 | 2.95    | NM      |
| P5 (West)          | 12.49                               | 12.49    | 12.49    | 15599 | Dry     | NM      |
| Collection Sump    | 8.61                                | NM       | 8.61     | 15699 | 8.10    | NM      |
|                    |                                     |          |          | 15799 | 10.25   | NM      |
|                    |                                     |          |          | 3586  | NM      | 7.81    |

NM = Not measured

Analytical results for the September 29, 1999 and October 26, 1999 sampling events were received this quarter. The results indicate that most of the volatile organic compounds (VOCs) and radionuclides are removed within the first two feet of reactive iron. Figure 3 shows the sampling locations within the treatment cells. Samples were not collected within the second treatment cell because of the efficiency with which the first treatment cell is removing contaminants. The sample results received this quarter are provided in Appendix A. As of the report date, the data have not been verified or validated and a data quality assessment has not been conducted.



LEGEND

- [Solid Box] REACTIVE IRON
  - [Circle] SAMPLE LOCATION
  - [Wavy Line] WATER LINE
  - [Dashed Line] SAMPLE LINE
- NOT TO SCALE

**Figure 3**  
Sample locations within  
the Treatment Cells



Rocky Mountain Remediation Services, L.L.C.  
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99-0318

### 2.2.1 September 29, 1999 Sampling Event

The influent contaminant concentrations were significantly reduced by the time the treated water leaves the system as shown in Table 2 and Figure 4. Most of the contaminants are removed in the first treatment cell within the first two feet of the reactive media. The uppermost foot of media previously consisted of 50% iron mixed with 50% pea gravel. This mixture was replaced with a mixture of 10% iron and 90% pea gravel. As a result, most of the contaminants are removed within the first two feet instead of the first foot as was previously seen.

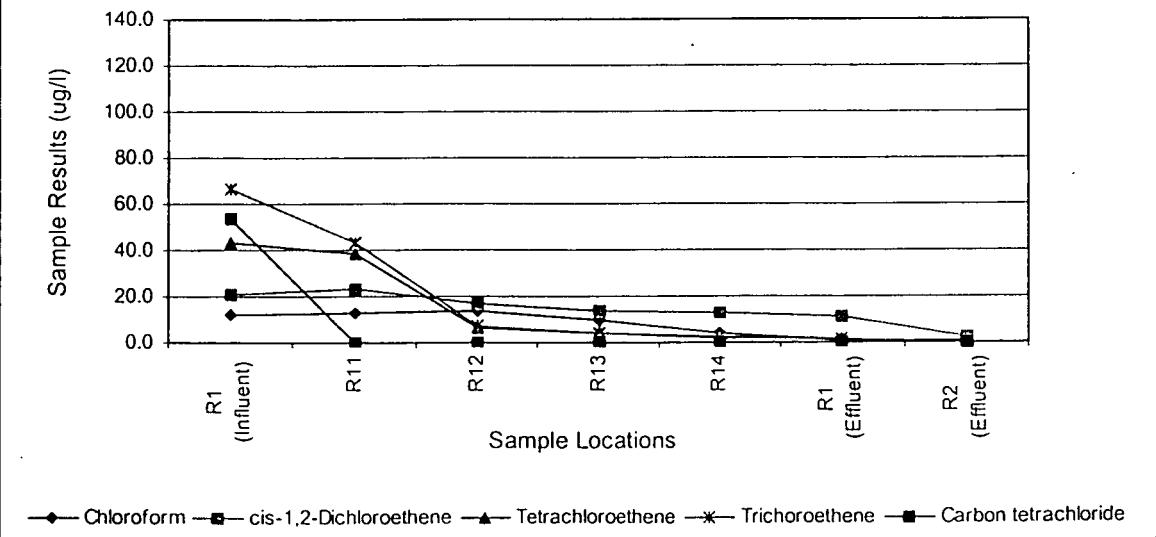
Table 2. Summary of the September 29, 1999 Sampling Event

| Contaminant                | Average Influent (R1I) Concentration (ug/l) | Effluent from Reactor 1 (R1E) Concentrations (ug/l) | Effluent from Reactor 2 (R2E) Concentrations (ug/l) | RFCA Groundwater Tier II Action levels (ug/l) |
|----------------------------|---|---|---|---|
| Carbon Tetrachloride       | 53.7  | ND  | ND  | 5   |
| Chloroform                 | 12  | 1.0   | 1.0   | 100   |
| 1,1-Dichloroethene         | 4.6   | 4.6   | ND  | 7   |
| Cis 1,2-Dichloroethene     | 21  | 11  | 2.7   | 70  |
| 1,2-Dichloroethene (total) | 21  | 11  | 2.7   | 70  |
| Tetrachloroethene          | 43  | 1.9   | ND  | 5   |
| Trichloroethene            | 66.7  | 1.7   | ND  | 5   |

ND = Not detected at the detection limit for this analysis

Increased groundwater flow this quarter resulted in reduced influent contaminant concentrations. For example August influent concentrations were 70 micrograms per liter (ug/l) for tetrachloroethene and 110 ug/l trichloroethene compared to 43 ug/l tetrachloroethene and 66.7 ug/l trichloroethene in the September sampling event. All effluent results were below the RFCA Tier II Groundwater Action Levels.

Figure 4. MOUND PLUME TREATMENT RESULTS  
By Sample Location - September 29, 1999



## 2.2.2 October 26, 1999 Sampling Event

The influent contaminant concentrations were reduced to well below the RFCA Tier II Groundwater Action Levels prior to the treated water leaving the first treatment cell. Carbon tetrachloride, tetrachloroethene and trichloroethene are non-detectable prior to the treated water exiting the treatment system. Sample results are provided in Table 3 and Figure 5. Effluent concentrations from the second reactor cell were not measured based on the previous low concentrations, which are well below RFCA Tier II Action Levels.

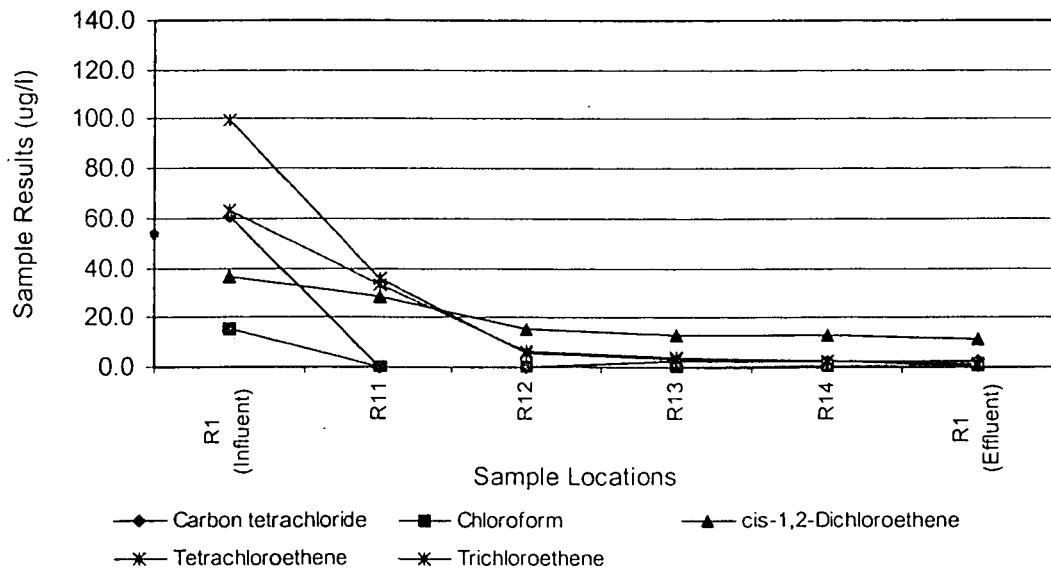
Table 3. Summary of the October 26, 1999 Sampling Event

| Contaminant            | Average Influent (R1I) Concentration (ug/l) | Effluent from Reactor 1 (R1E) Concentrations (ug/l) | Effluent from Reactor 2 (R2E) Concentrations (ug/l) | RFCA Groundwater Tier II Action Levels (ug/l) |
|------------------------|---|---|---|---|
| Carbon Tetrachloride   | 60.3  | ND  | NS  | 5   |
| Chloroform             | 15.7  | 0.9   | NS  | 100   |
| Cis 1,2-dichloroethene | 36.3  | 11  | NS  | 70  |
| 1,1,1-Trichloroethane  | 5.9   | ND  | NS  | 200   |
| Tetrachloroethene      | 63.3  | 1.5   | NS  | 5   |
| Trichloroethene        | 99.3  | 1.2   | NS  | 5   |

ND = Not detected at the detection limit for this analysis

NS = Not sampled

Figure 5. MOUND PLUME TREATMENT RESULTS  
By Sample Locations - October 26, 1999



Radiological analyses received during this quarter are also provided in Appendix A, and consist only of total uranium by weight for this sampling event. The radiological contaminants of concern identified in the Mound Site Plume Decision Document (DOE 1997) were total uranium and americium-241. Americium samples were not collected at the influent locations.

Total uranium analyses show a marked decrease from influent to effluent sampling locations. The average total uranium concentration at the influent to the first treatment cell was 14 ug/l (J), which was below the detection limit for the analytical method. At the sampling port one foot into the iron, the total uranium concentration had declined to 0.019 ug/l (UJ). The effluent from the treatment system measured 0.016 ug/l (UJ). Using a conversion factor of 0.677 picocuries per microgram (pCi/ug), which was provided by the laboratory that performed the analysis, these values roughly equate to 9.48 pCi/l at the influent sample location and 0.011 pCi/l at the effluent sample location. This effluent concentration is well below the RFCA Tier II action level of 10 pCi/l.

### 2.3 Conclusions

The Mound Site Plume Treatment Project is fully operational and treating contaminated groundwater below specified system performance requirements. Ongoing maintenance, raking the iron media and retrieving flow rate and water level data are the only required activities. Monthly sampling will continue to verify the performance of the treatment system. For the next quarter, no changes in the system are expected.

## 3.0 EAST TRENCHES PLUME TREATMENT SYSTEM

The East Trenches Plume Treatment System collects and treats the contaminated groundwater from Trench 3 and Trench 4 to the Groundwater Action Level Framework Tier II level concentrations defined in the RFCA (DOE, 1996). The sources for the contaminated groundwater plume were remediated in 1996 as an accelerated action.

Installation of the 1,200-foot long collection system along with the two reactive iron treatment cells was completed in September 1999 and the components of the system are shown on Figure 6. The system is similar to the collection and treatment system installed for the Mound Plume. This system requires little maintenance, and will provide long-term protection of surface water by collecting and treating the contaminated groundwater before it reaches South Walnut Creek.

### 3.1 Project Events

Raking of the iron media in the two treatment cells began during installation of the system and continues, generally on a weekly basis. Maintenance of the system along with water level monitoring and sample collection are performed by Rocky Flats staff. Water levels within the two treatment cells have fluctuated up to 18 inches this past quarter. These fluctuations do not create a problem with the operation of the treatment system, but are apparently contributing to crust formation.

In October, during one of the earlier increases in the treatment cell water level, a black material was observed in the eastern treatment cell. The material was comprised of black filaments and probably blocked the outlet from the treatment cell, causing a rise in water elevations. When normal flow was restored, much of the material was flushed out and the amount within the treatment cell decreased, although a small amount is still occasionally seen. Envirometal, Inc. believes that this black material is an iron bacteria, which is expected to be easily treated if treatment is necessary. Other fluctuations in water level are probably not related to the presence of this material. However the issue of water level fluctuations is expected to be resolved next quarter.

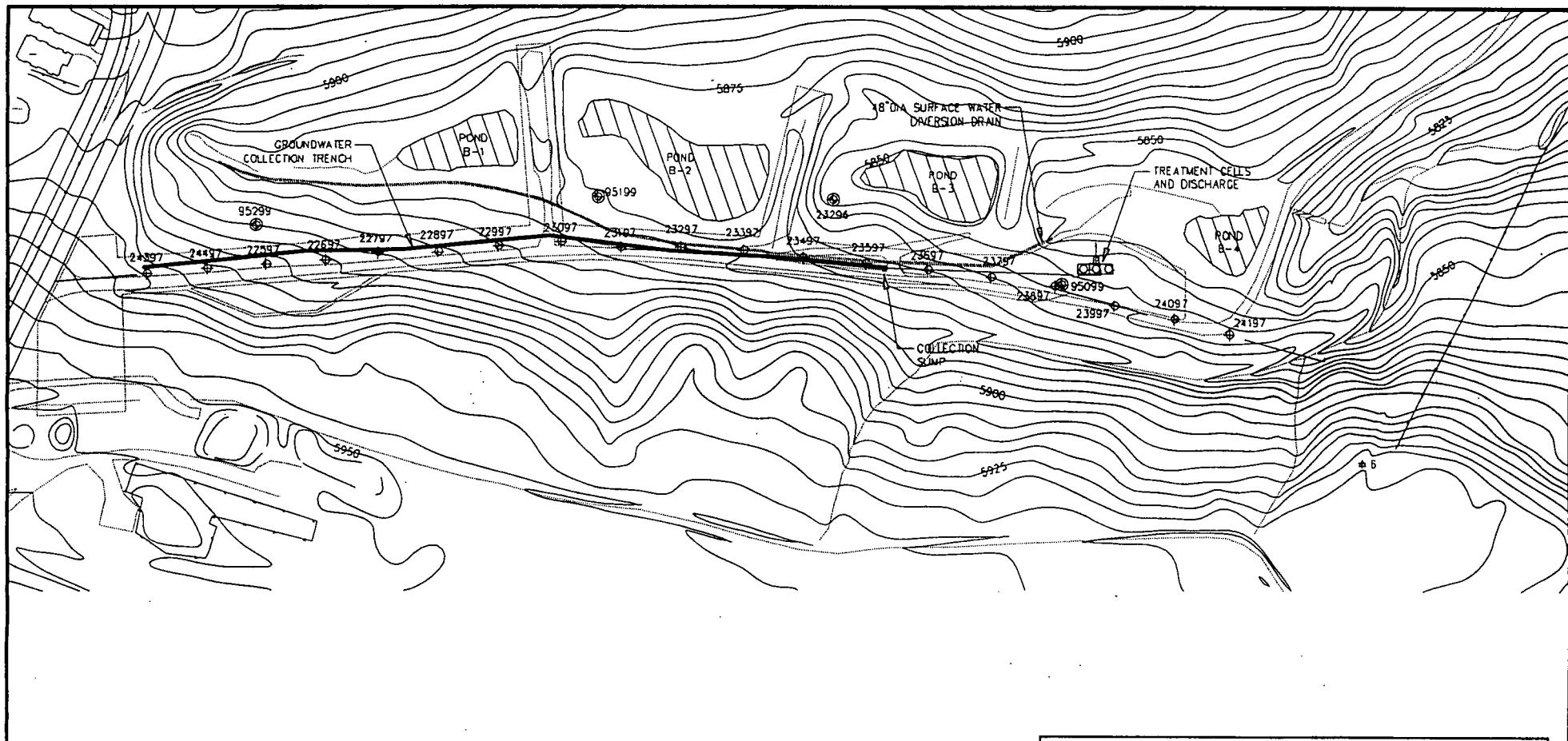
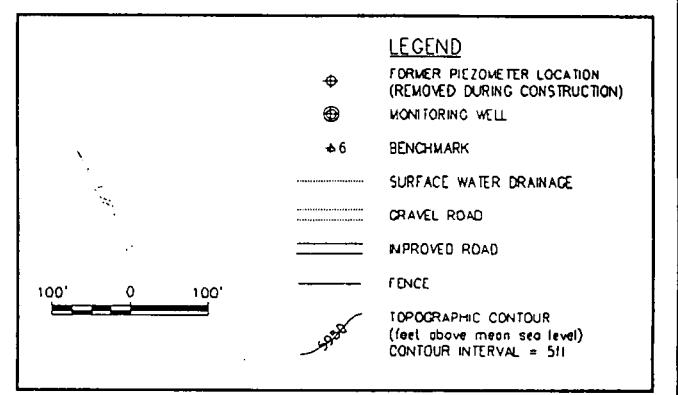


Figure 6 East Trenches Plume Treatment System Locations



Rocky Mountain Remediation Services, L.L.C.  
Geographic Information Systems Group  
Rocky Flats Environmental Technology Site  
P.O. Box 464  
Golden, CO 80402-0464

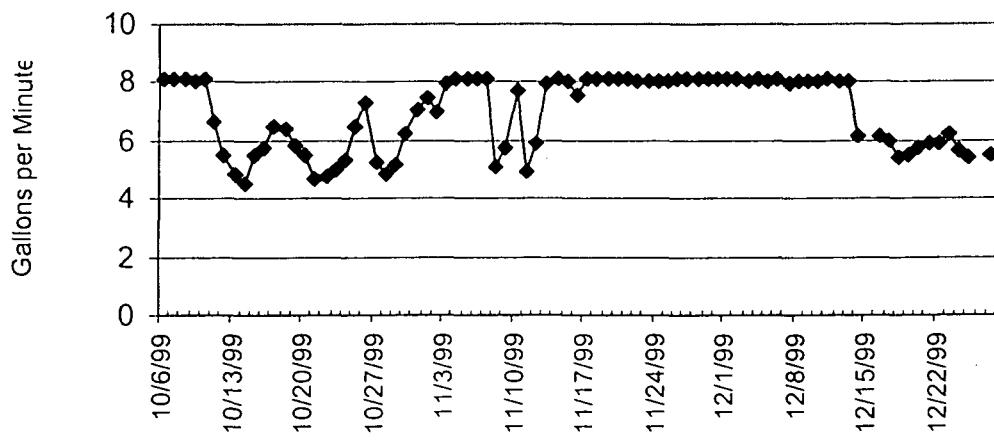
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### 3.2 Treatment Effectiveness

Treatment system flow rates for October through December are shown on Figure 7. Total flow volume through the system as of December 27, 1999 was approximately 1,158,941 gallons of water. Approximately 400,000 gallons of groundwater were collected and treated after installation of the treatment cells, but while the system was still under construction. The recorded flow rate from the treatment system ranged from 2 to 8 gallons per minute and averaged 7 gallons per minute. Because of a programming problem, no flow rates above 8.08 gallons per minute were captured. This problem has been resolved, but flow rates for November 17 through December 12, 1999 may be under reported. However, water levels within the metering manhole are also fluctuating and may contribute to erroneously high flow readings. The cause is being investigated and is expected to be corrected next quarter.

Figure 7. East Trenches Plume Treatment System Flow Rates,  
October through December 1999



Water levels within the collection trench are monitored by three piezometers (95699, 95799, and 95899) and are measured quarterly. Three downgradient wells (95099, 95199, 95299) were installed as part of this remedial action and are used in conjunction with existing well 23296 to monitor water levels and quality. Locations are shown on Figure 6 with the results shown in Table 4.

Table 4. East Trenches Plume Piezometer and Well Water Levels (in feet below top of casing)

| Trench Piezometers |         | Groundwater Wells |         |      |
|--------------------|---------|-------------------|---------|------|
|                    | 12/1/99 | 12/27/99          | 12/1/99 |      |
| 95699 (East)       | 20.35   | NM                | 95099   | 15.9 |
| 95799              | NM      | 9.87              | 95199   | 9.67 |
| 95899              | Dry     |                   | 95299   | Dry  |
|                    |         |                   | 23296   | 5.52 |

NM = Not measured

Analytical samples are collected monthly at the influent and effluent of the treatment system to monitor treatment effectiveness, beginning in October 1999. Data are available for a pre-completion grab sample and the October sampling event.

### 3.2.1 Pre-Completion Sample

During construction of the system, a grab sample was collected on September 7, 1999 from the influent and effluent of the treatment system to verify that the water collected and treated by the partial system was meeting action levels. Analytical results for compounds that exceeded the detection limit are shown in Table 5. All contaminants were reduced to levels below the RFCA Action Levels with the exception of methylene chloride, which was below detection limit in the influent, and above action levels in the effluent. While no data on laboratory blanks were provided, methylene chloride is a common laboratory contaminant. However, occurrence of methylene chloride will be monitored to determine if this is a recurring problem.

Table 5. Pre-Completion Sample Results

| Compound               | Influent Concentration (ug/l) | Effluent Concentration (ug/l) | RFCA Groundwater Tier II Action Levels (ug/l) |
|------------------------|-------------------------------|-------------------------------|---|
| 1,1-Dichloroethene     | 8.1                           | ND                            | 7   |
| Methylene chloride     | ND                            | 21                            | 5   |
| Cis-1,2-Dichloroethene | 29                            | 8.4                           | 70  |
| Chloroform             | 140                           | ND                            | 100   |
| 1,1,1-Trichloroethane  | 13                            | ND                            | 200   |
| Carbon Tetrachloride   | 170 B                         | ND                            | 5   |
| Trichloroethene        | 3,500 E                       | ND                            | 5   |
| Tetrachloroethene      | 150                           | ND                            | 5   |

B = Detected in blank

ND = Not detected at the detection limit for this analysis

E = Detected above calibration limit for analysis

### 3.2.2 October 24-28, 1999 Sampling Event

The newly installed wells, influent and effluent for the treatment system were sampled for VOCs and other constituents between October 24 and October 28. Results are provided in Appendix B. VOC results that exceeded detection limits are provided in Table 6. Piezometer 95299 was dry and no analytical results were obtained. Because of the high concentration of trichloroethene in the influent, this sample required dilution during analysis, resulting in a detection limit of 250 ug/l. Lower concentrations of other VOCs may be present below the detection limit.

Table 6. October Sample Results

| Compound               | Influent Concentration (ug/l) | Effluent Concentration (ug/l) | Well 95099 (ug/l) | Well 95199 (ug/l) | Well 23296 (ug/l) | RFCA Groundwater Tier II Action Levels (ug/l) |
|------------------------|-------------------------------|-------------------------------|-------------------|-------------------|-------------------|---|
| Methylene chloride     | 110 JB                        | 15 B                          | 0.1 JB            | 0.3 JB            | 3 JB              | 5   |
| Cis-1,2-Dichloroethene | 33 J                          | 22                            | 1 U               | 1 J               | 170               | 70  |
| Chloroform             | 120 J                         | 6                             | 0.4 J             | 0.3 J             | 8 J               | 100   |
| Carbon Tetrachloride   | 140 J                         | 1 U                           | 0.2 J             | 2 U               | 3 J               | 5   |
| Trichloroethene        | 3,700                         | 1 U                           | 1 U               | 38                | 280               | 5   |
| Tetrachloroethene      | 250                           | 1 U                           | 1 U               | 1 J               | 10 J              | 5   |

B = Detected in blank

J = Detected below the detection limit for analysis

U = Analyte not detected at detection limit

The contaminants of concern for this plume are primarily carbon tetrachloride, trichloroethene and tetrachloroethene. These are reduced to below detection limit concentrations at the effluent from the treatment system. Methylene chloride is again detected in the effluent, and also occurs in the laboratory blanks. As the concentrations are less than 10 times the detection limit, the presence of methylene chloride is probably due to laboratory contamination.

The concentrations of trichloroethene and cis-1,2-dichloroethene in wells 95199 and 23296 are associated with the distal end of the plume that has already reached the creek. Concentrations are expected to decrease over time as the upgradient portion of the plume has been intercepted.

### 3.3 Conclusions

The East Trenches Plume Treatment System is fully operational and treating contaminated groundwater to below the specified system performance requirements. Ongoing maintenance, raking the iron filings and retrieving flow rate and water level data are the only required activities. Monthly sampling will continue to verify the performance of the treatment system. For the next quarter, no changes in the system are expected except those minor actions, which may occur to mitigate concerns associated with fluctuating water levels in the treatment cells and metering manhole.

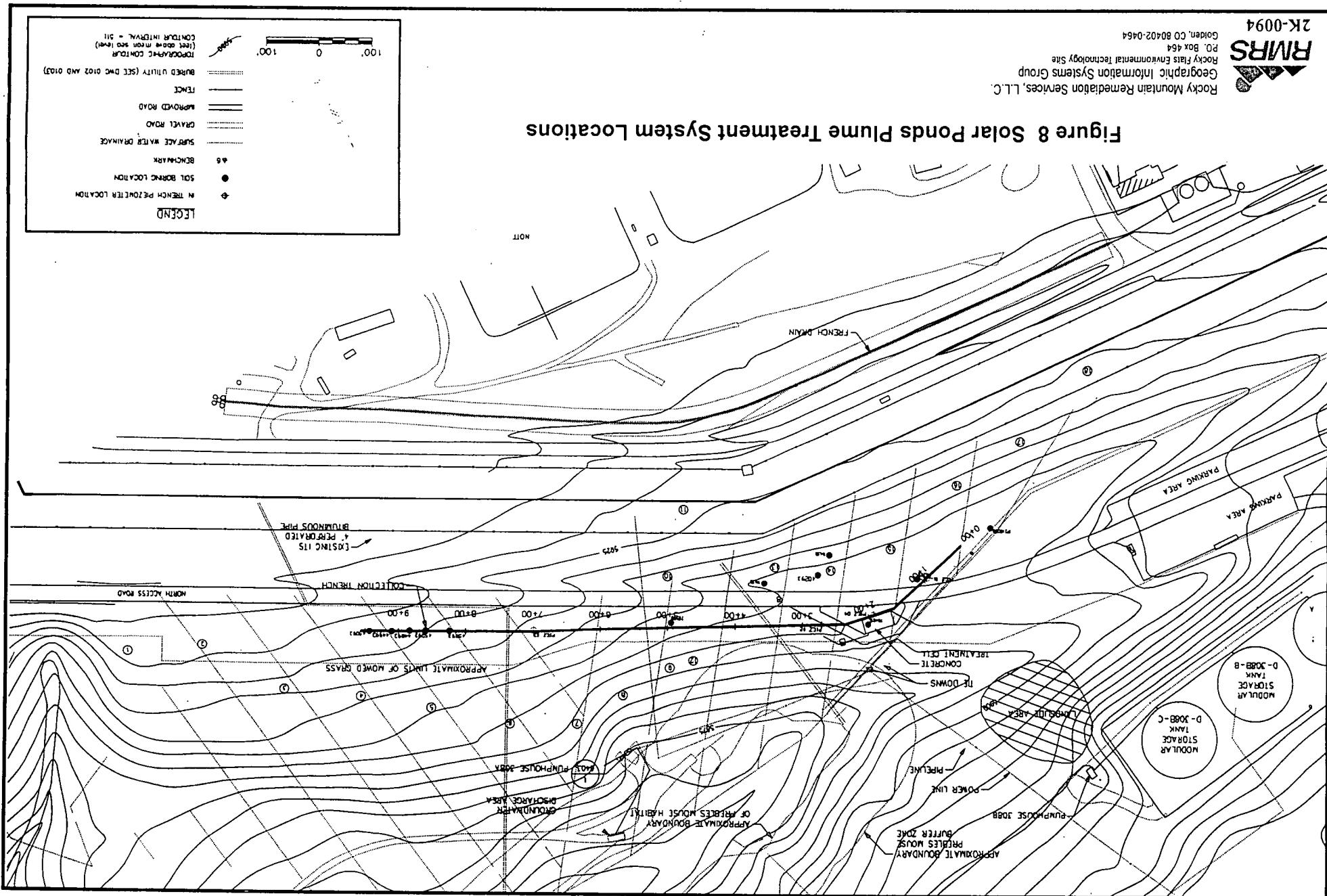
## 4.0 SOLAR PONDS PLUME TREATMENT SYSTEM

The Solar Ponds Plume is a plume of low-level nitrate and uranium contaminated groundwater, derived from storage and evaporation of radioactive and hazardous liquid wastes in the Solar Evaporation Ponds. These ponds were drained and sludge removal was completed in 1995. To dewater the hillside, six interceptor trenches were installed in 1971. The original six trenches were abandoned in place and the current Interceptor Trench System (ITS) was installed in 1981.

Installation of the 1,100-foot long collection system along with a passive treatment cell containing iron and wood chips was completed in September 1999 and the components of the system are shown on Figure 8. This system intercepts the water collected by the pre-existing ITS.

Because of using a wood chip/iron media instead of only iron, maintenance of the system will consist of water level monitoring and sample collection which are performed by Rocky Flats staff. Raking or other manipulation of the media is not expected to be required based on information from other, similar systems. Media replacement is expected to be required in 10 years.

The Solar Ponds Plume system is different from the passive, flow-through systems installed for the Mound Plume and East Trenches Plume. As originally designed, the treatment cell was located downgradient of the collection trench near North Walnut Creek. Water was expected to be intercepted and flow by gravity to the treatment cell without retention in the collection trench. Because the Preble's Meadow Jumping Mouse (a Federally Listed Threatened species) is present at the optimal location of a flow-through treatment cell, the treatment cell was located immediately adjacent to the collection trench and not 400 feet downgradient as was originally planned. As a result, the collection trench for this system must collect and store approximately 12 feet of groundwater to develop sufficient hydraulic head for the groundwater to flow into the treatment cell.



#### 4.1 Project Events

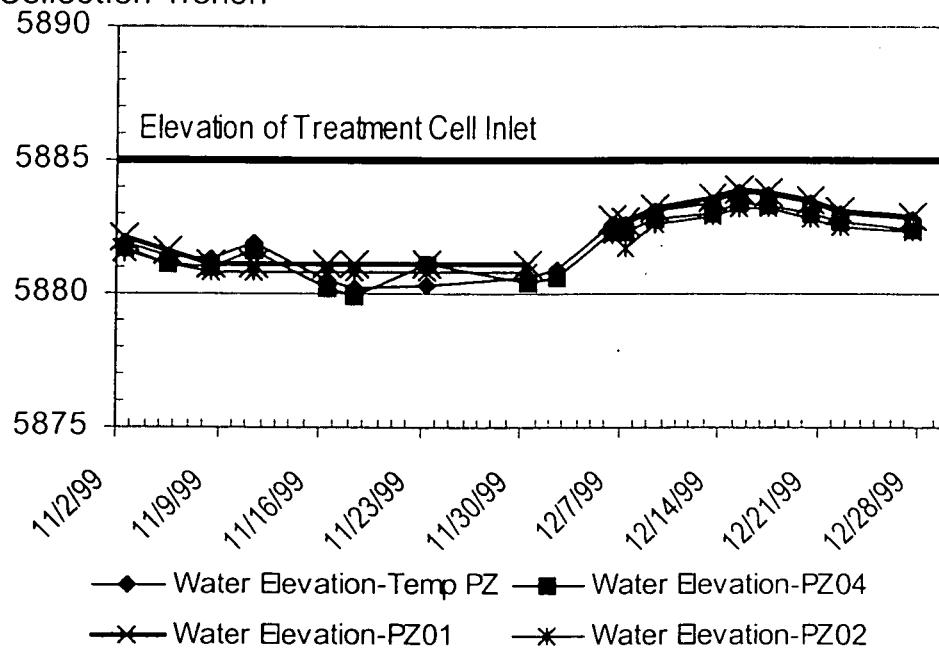
Sufficient groundwater has not yet built up within the collection trench to flow into the treatment cell (Figure 9). Groundwater levels within the collection trench are fluctuating instead of constantly rising. Groundwater is discharging at the system discharge gallery, a seep east of the ITS Pump House, and at the ITS Sump at approximately 1 gallon per minute. The following problems were identified:

- Water levels rising and falling within the collection trench,
- Groundwater discharge at the system discharge gallery and into the ITS Sump, and
- Existence of a seep to the east of the ITS Pump House, apparently not related to water build up within the collection trench.

An investigation into the possible causes is continuing and is summarized below.

Figure 9. Water Elevation within Solar Ponds Plume

Collection Trench



The ITS laterals were identified and excavated in advance of construction to make sure that these were all intercepted. The collection trench extends below the ITS laterals and the barrier effectively precludes additional groundwater migration. As expected, the eastern part of the collection trench was excavated into very dry soils and bedrock. The ITS laterals in this area were dry when cut, reinforcing that the eastern portion of the ITS was dry. The soil and rock between the ITS laterals was very dry everywhere except the section west of the treatment cell where the soil appeared saturated. The eastern leg of the ITS system was plugged at the Interceptor Trench Pump House and is probably the source of the seep in this area. Based on the

information above, the seep was expected to dry up in a short amount of time because the ITS laterals in the eastern half of the system were dry.

In contrast to what was expected, the ITS laterals and the main trunk lines were perforated and surrounded by a river rock and geotextile "burrito wrap". The existing western leg of the ITS system was utilized to convey the treated water from the treatment cell to the discharge gallery. This leg was cut during excavation of the treatment cell and continued to flow and saturate the soil within the excavation surrounding the treatment cell during construction, for approximately 4 months. However, the downgradient end of the ITS line at the excavation did not contain flowing water when the line from the treatment cell was installed.

The secondary containment for the return line from the ITS Pump House to Building 910 was full of water when it was intersected. While the primary line was replaced, it may be possible that some water is leaking into the ITS downgradient of the barrier from the severed secondary containment.

There may be penetrations through the newly installed barrier wall. However, this would not be a concern anywhere in the system except within the approximately 200 feet of collection trench immediately upgradient of the treatment cell where groundwater is stored. Elsewhere in the system, groundwater is collected and immediately transported to the lowest portion of the collection trench without building up against the barrier wall.

The bedrock claystone was believed to have low permeability based on existing data. The barrier was installed approximately 10 feet into the claystone, which is deeper than at the other sites, to capture groundwater in the bedrock. The majority of the groundwater collected by the system was expected to be from the ITS. The area where the collection trench was installed was generally unsaturated due to the effectiveness of the pre-existing ITS. It is possible that, with 12 feet of head in the collection trench, that groundwater is migrating through the claystone on the upgradient side of the trench, and re-saturating the claystone. If true, then water may not flow into the treatment cell until after the pre-ITS water table is re-established in the area of the collection trench. Where the water levels intercept the existing downgradient ITS lines, these lines would funnel the collected groundwater into the area of the ITS Pump House from the east, and to the discharge gallery on the west.

#### **4.1.1 Recommended Actions**

The following actions have been or will be taken to address the identified issues:

- The discharge gallery, ITS Sump and the seep east of the ITS Pump House will be sampled for nitrate and uranium to assist with determining the source of the discharging groundwater.
- Water levels in the ITS Sump will be monitored to determine if the influx is groundwater or water from the ITS.
- Piezometer elevations within the collection trench will be resurveyed to determine if the slightly different water elevations indicate areas where the collection trench is losing water, or are a result of surveying errors.
- Water levels near the collection trench will be measured in the newly installed wells, and other available wells to determine if water levels are rising.

- Design drawings and utility drawings are being evaluated to determine if structures or utilities may be present in the area that might be providing additional pathways for groundwater flow.
- Pumping the groundwater from the collection trench to the treatment cell is being evaluated. This will allow the system to operate more as it was originally designed with a flow through collection system. Many of the issues above would be satisfactorily addressed or further evaluated in this manner, and the objectives from the Decision Document would still be met (DOE 1999). Pumping would be re-evaluated prior to Site closure to determine if it would still be required.

#### 4.2 Treatment Effectiveness

No groundwater has been treated by the treatment cell; however, the influent location is monitored monthly. North Walnut Creek surface water location GS13 and Pond A-3 are currently monitored frequently to ensure that stream standards are not exceeded (Tables 7 and 8). The field nitrate values are collected to provide an early indication if a surface water standard might be exceeded.

Table 7. Solar Ponds Plume Nitrate Results – Surface Water Locations

| Date Sampled        | GS 13<br>Nitrate –<br>Field<br>method<br>(mg/l) | GS13<br>Nitrate –<br>laboratory<br>analysis<br>(mg/l) | Pond A-3<br>Nitrate –<br>Field<br>method<br>(mg/l) | Pond A-3<br>Nitrate –<br>laboratory<br>analysis<br>(mg/l) | RFCA Surface Water<br>Action Levels –<br>Segment 5 Stream<br>Standard (mg/l) |
|---------------------|---|---|--|---|--|
| October 4, 1999     | NS  | NS  | 3.2  | 0.81  | 100  |
| October 5, 1999     | 13.2  | 27  | 3.3  | 0.98  | 100  |
| October 6 & 7, 1999 | 14.7  | 17  | 3  | 1.4   | 100  |
| October 12, 1999    | 13.2  | 23  | 0.9  | 0.78  | 100  |
| October 14, 1999    | 18.6  | 19  | 2.3  | 1   | 100  |
| October 19, 1999    | 3.6   | 7.2   | 1.1  | 1.3   | 100  |
| October 21, 1999    | 10.5  | 11  | 0.7  | 1.9   | 100  |
| October 26, 1999    | 14.5  | 19  | 3.8  | 0.05  | 100  |
| October 28, 1999    | 13.2  | 20  | 3.2  | 2   | 100  |
| November 2, 1999    | 13.1  | 24  | 1.3  | 3   | 100  |
| November 4, 1999    | 15.6  | 22  | 3.3  | 3.5   | 100  |
| November 9, 1999    | 15.2  | 25  | 2.1  | 4.6   | 100  |
| November 11, 1999   | 14  | 26  | 1.8  | 4.2   | 100  |
| November 16, 1999   | 11.1  | 31  | 2.1  | 4.8   | 100  |
| November 18, 1999   | 15.5  | 31  | 2.9  | 6   | 100  |
| November 22, 1999   | 6.6   | 13  | 6.1  | 5.6   | 100  |
| November 24, 1999   | 10.2  | 24  | 5  | 7.2   | 100  |
| November 30, 1999   | 13.2  | 21  | 6.5  | 6.5   | 100  |
| December 2, 1999    | 9.7   | 22  | 4.9  | 7.7   | 100  |
| December 7, 1999    | 7.5   | NR  | 6.3  | NR  | 100  |
| December 9, 1999    | 1.3   | NR  | <0.01  | NR  | 100  |
| December 14, 1999   | 8.7   | NR  | 4.8  | NR  | 100  |

NS – not sampled

NR – Results not yet received

Table 8. Solar Ponds Plume Analytical Results – Influent and GS13

| Date Sampled and Compound            | Influent          | GS13              | RFCA Surface Water Action Levels |
|--------------------------------------|-------------------|-------------------|----------------------------------|
| <b>October 28, 1999</b>              |                   |                   |                                  |
| Nitrate – Field method (mg/l)        | 127               | 13.2              | 100                              |
| Nitrate – laboratory analysis (mg/l) | 130               | 20                | 100                              |
| Uranium 233,234 (pCi/l)              | $12.1 \pm 1.75$   | $2.27 \pm 0.583$  | $10^*$                           |
| Uranium 235 (pCi/l)                  | $0.572 \pm 0.313$ | $0.019 \pm 0.084$ | $10^*$                           |
| Uranium 238 (pCi/l)                  | $8.26 \pm 1.33$   | $3.32 \pm 0.725$  | $10^*$                           |
| <b>November 30, 1999</b>             |                   |                   |                                  |
| Nitrate – Field method (mg/l)        | 135               | 13.2              | 100                              |
| Nitrate – laboratory analysis (mg/l) | 0.27**            | 21                | 100                              |
| Uranium 233,234 (pCi/l)              | $12.0 \pm 1.76$   | $2.67 \pm 0.637$  | $10^*$                           |
| Uranium 235 (pCi/l)                  | $0.338 \pm 0.246$ | $0.072 \pm 0.110$ | $10^*$                           |
| Uranium 238 (pCi/l)                  | $8.25 \pm 1.36$   | $3.67 \pm 0.765$  | $10^*$                           |

\* Total Uranium

\*\* Possible error, data are being rechecked.

#### 4.3 Conclusions

While the system is not treating water, the data show that the surface water standards are being maintained in North Walnut Creek at this time.

#### 5.0 REFERENCES

DOE, 1996, *Final Rocky Flats Cleanup Agreement*, Rocky Flats Environmental Technology Site, Golden, CO, July.

DOE, 1997, *Final Mound Site Plume Decision Document*, RF/RMRS-97-024, September.

DOE, 1999, *Final Solar Ponds Plume Decision Document*, RF/RMRS-98-286.UN, June.

**Appendix A – Mound Plume Analytical Data**

Appendix A  
Mound Plume Analytical Data

| Sample Number      | Compound                  | Sample Result | Units | Collection Date | Lab Qualifier | Reporting Limit |
|--------------------|---------------------------|---------------|-------|-----------------|---------------|-----------------|
| ETI-R10-S-01-92999 | 1,1,1-Trichloroethane     | 3.4           | ug/L  | 29-Sep-99       |               | 1.6             |
| ETI-R10-S-02-92999 | 1,1,1-Trichloroethane     | 4.4           | ug/L  | 29-Sep-99       |               | 1.6             |
| ETI-R10-S-03-92999 | 1,1,1-Trichloroethane     | 4.5           | ug/L  | 29-Sep-99       |               | 1.6             |
| ETI-R11-S-01-92999 | 1,1,1-Trichloroethane     | 1.3           | ug/L  | 29-Sep-99       |               | 0.8             |
| ETI-R11-S-02-92999 | 1,1,1-Trichloroethane     | 1.4           | ug/L  | 29-Sep-99       |               | 0.8             |
| ETI-R11-S-03-92999 | 1,1,1-Trichloroethane     | 1.3           | ug/L  | 29-Sep-99       |               | 0.8             |
| ETI-R12-S-01-92999 | 1,1,1-Trichloroethane     | 0.39          | ug/L  | 29-Sep-99       |               | 0.8             |
| ETI-R13-S-01-92999 | 1,1,1-Trichloroethane     | 0.24          | ug/L  | 29-Sep-99       |               | 0.8             |
| ETI-R14-S-01-92999 | 1,1,1-Trichloroethane     | 0.17          | ug/L  | 29-Sep-99       |               | 0.8             |
| ETI-R1E-S-01-92999 | 1,1,1-Trichloroethane     | ND            | ug/L  | 29-Sep-99       |               | 0.8             |
| ETI-R2E-S-01-92999 | 1,1,1-Trichloroethane     | ND            | ug/L  | 29-Sep-99       |               | 0.8             |
| ETI-R10-S-01-92999 | 1,1,2,2-Tetrachloroethane | ND            | ug/L  | 29-Sep-99       |               | 2               |
| ETI-R10-S-02-92999 | 1,1,2,2-Tetrachloroethane | ND            | ug/L  | 29-Sep-99       |               | 2               |
| ETI-R10-S-03-92999 | 1,1,2,2-Tetrachloroethane | ND            | ug/L  | 29-Sep-99       |               | 2               |
| ETI-R11-S-01-92999 | 1,1,2,2-Tetrachloroethane | ND            | ug/L  | 29-Sep-99       |               | 1               |
| ETI-R11-S-02-92999 | 1,1,2,2-Tetrachloroethane | ND            | ug/L  | 29-Sep-99       |               | 1               |
| ETI-R11-S-03-92999 | 1,1,2,2-Tetrachloroethane | ND            | ug/L  | 29-Sep-99       |               | 1               |
| ETI-R12-S-01-92999 | 1,1,2,2-Tetrachloroethane | ND            | ug/L  | 29-Sep-99       |               | 1               |
| ETI-R13-S-01-92999 | 1,1,2,2-Tetrachloroethane | ND            | ug/L  | 29-Sep-99       |               | 1               |
| ETI-R14-S-01-92999 | 1,1,2,2-Tetrachloroethane | ND            | ug/L  | 29-Sep-99       |               | 1               |
| ETI-R1E-S-01-92999 | 1,1,2,2-Tetrachloroethane | ND            | ug/L  | 29-Sep-99       |               | 1               |
| ETI-R2E-S-01-92999 | 1,1,2,2-Tetrachloroethane | ND            | ug/L  | 29-Sep-99       |               | 1               |
| ETI-R10-S-01-92999 | 1,1,2-Trichloroethane     | ND            | ug/L  | 29-Sep-99       |               | 2               |
| ETI-R10-S-02-92999 | 1,1,2-Trichloroethane     | ND            | ug/L  | 29-Sep-99       |               | 2               |
| ETI-R10-S-03-92999 | 1,1,2-Trichloroethane     | ND            | ug/L  | 29-Sep-99       |               | 2               |
| ETI-R11-S-01-92999 | 1,1,2-Trichloroethane     | ND            | ug/L  | 29-Sep-99       |               | 1               |
| ETI-R11-S-02-92999 | 1,1,2-Trichloroethane     | ND            | ug/L  | 29-Sep-99       |               | 1               |
| ETI-R11-S-03-92999 | 1,1,2-Trichloroethane     | ND            | ug/L  | 29-Sep-99       |               | 1               |
| ETI-R12-S-01-92999 | 1,1,2-Trichloroethane     | ND            | ug/L  | 29-Sep-99       |               | 1               |
| ETI-R13-S-01-92999 | 1,1,2-Trichloroethane     | ND            | ug/L  | 29-Sep-99       |               | 1               |
| ETI-R14-S-01-92999 | 1,1,2-Trichloroethane     | ND            | ug/L  | 29-Sep-99       |               | 1               |
| ETI-R1E-S-01-92999 | 1,1,2-Trichloroethane     | ND            | ug/L  | 29-Sep-99       |               | 1               |
| ETI-R2E-S-01-92999 | 1,1,2-Trichloroethane     | ND            | ug/L  | 29-Sep-99       |               | 1               |
| ETI-R10-S-01-92999 | 1,1-Dichloroethane        | 0.9           | ug/L  | 29-Sep-99       |               | 2.4             |
| ETI-R10-S-02-92999 | 1,1-Dichloroethane        | 1.1           | ug/L  | 29-Sep-99       |               | 2.4             |
| ETI-R10-S-03-92999 | 1,1-Dichloroethane        | 1.2           | ug/L  | 29-Sep-99       |               | 2.4             |
| ETI-R11-S-01-92999 | 1,1-Dichloroethane        | 1.7           | ug/L  | 29-Sep-99       |               | 1.2             |
| ETI-R11-S-02-92999 | 1,1-Dichloroethane        | 1.8           | ug/L  | 29-Sep-99       |               | 1.2             |
| ETI-R11-S-03-92999 | 1,1-Dichloroethane        | 1.8           | ug/L  | 29-Sep-99       |               | 1.2             |
| ETI-R12-S-01-92999 | 1,1-Dichloroethane        | 2.1           | ug/L  | 29-Sep-99       |               | 1.2             |
| ETI-R13-S-01-92999 | 1,1-Dichloroethane        | 2             | ug/L  | 29-Sep-99       |               | 1.2             |
| ETI-R14-S-01-92999 | 1,1-Dichloroethane        | 2.2           | ug/L  | 29-Sep-99       |               | 1.2             |
| ETI-R1E-S-01-92999 | 1,1-Dichloroethane        | 1.8           | ug/L  | 29-Sep-99       |               | 1.2             |
| ETI-R2E-S-01-92999 | 1,1-Dichloroethane        | 1.4           | ug/L  | 29-Sep-99       |               | 1.2             |
| ETI-R10-S-01-92999 | 1,1-Dichloroethene        | 3.7           | ug/L  | 29-Sep-99       |               | 2               |
| ETI-R10-S-02-92999 | 1,1-Dichloroethene        | 5.1           | ug/L  | 29-Sep-99       |               | 2               |
| ETI-R10-S-03-92999 | 1,1-Dichloroethene        | 5.1           | ug/L  | 29-Sep-99       |               | 2               |
| ETI-R11-S-01-92999 | 1,1-Dichloroethene        | 4.5           | ug/L  | 29-Sep-99       |               | 1               |
| ETI-R11-S-02-92999 | 1,1-Dichloroethene        | 4.5           | ug/L  | 29-Sep-99       |               | 1               |
| ETI-R11-S-03-92999 | 1,1-Dichloroethene        | 4.6           | ug/L  | 29-Sep-99       |               | 1               |
| ETI-R12-S-01-92999 | 1,1-Dichloroethene        | 2.9           | ug/L  | 29-Sep-99       |               | 1               |
| ETI-R13-S-01-92999 | 1,1-Dichloroethene        | 1.9           | ug/L  | 29-Sep-99       |               | 1               |

Appendix A  
Mound Plume Analytical Data

| Sample Number      | Compound                   | Sample Result | Units | Collection Date | Lab Qualifier | Reporting Limit |
|--------------------|----------------------------|---------------|-------|-----------------|---------------|-----------------|
| ETI-R14-S-01-92999 | 1,1-Dichloroethene         | 1.5           | ug/L  | 29-Sep-99       |               | 1               |
| ETI-R1E-S-01-92999 | 1,1-Dichloroethene         | 1.2           | ug/L  | 29-Sep-99       |               | 1               |
| ETI-R2E-S-01-92999 | 1,1-Dichloroethene         | ND            | ug/L  | 29-Sep-99       |               | 1               |
| ETI-R10-S-01-92999 | 1,2-Dichloroethane         | 0.47          | ug/L  | 29-Sep-99       |               | 2               |
| ETI-R10-S-02-92999 | 1,2-Dichloroethane         | 0.53          | ug/L  | 29-Sep-99       |               | 2               |
| ETI-R10-S-03-92999 | 1,2-Dichloroethane         | 0.55          | ug/L  | 29-Sep-99       |               | 2               |
| ETI-R11-S-01-92999 | 1,2-Dichloroethane         | 0.66          | ug/L  | 29-Sep-99       |               | 1               |
| ETI-R11-S-02-92999 | 1,2-Dichloroethane         | 0.68          | ug/L  | 29-Sep-99       |               | 1               |
| ETI-R11-S-03-92999 | 1,2-Dichloroethane         | 0.67          | ug/L  | 29-Sep-99       |               | 1               |
| ETI-R12-S-01-92999 | 1,2-Dichloroethane         | 0.77          | ug/L  | 29-Sep-99       |               | 1               |
| ETI-R13-S-01-92999 | 1,2-Dichloroethane         | 0.76          | ug/L  | 29-Sep-99       |               | 1               |
| ETI-R14-S-01-92999 | 1,2-Dichloroethane         | 0.75          | ug/L  | 29-Sep-99       |               | 1               |
| ETI-R1E-S-01-92999 | 1,2-Dichloroethane         | 0.69          | ug/L  | 29-Sep-99       |               | 1               |
| ETI-R2E-S-01-92999 | 1,2-Dichloroethane         | 0.58          | ug/L  | 29-Sep-99       |               | 1               |
| ETI-R10-S-01-92999 | 1,2-Dichloroethene (total) | 18            | ug/L  | 29-Sep-99       |               | 2               |
| ETI-R10-S-02-92999 | 1,2-Dichloroethene (total) | 22            | ug/L  | 29-Sep-99       |               | 2               |
| ETI-R10-S-03-92999 | 1,2-Dichloroethene (total) | 23            | ug/L  | 29-Sep-99       |               | 2               |
| ETI-R11-S-01-92999 | 1,2-Dichloroethene (total) | 23            | ug/L  | 29-Sep-99       |               | 1               |
| ETI-R11-S-02-92999 | 1,2-Dichloroethene (total) | 23            | ug/L  | 29-Sep-99       |               | 1               |
| ETI-R11-S-03-92999 | 1,2-Dichloroethene (total) | 23            | ug/L  | 29-Sep-99       |               | 1               |
| ETI-R12-S-01-92999 | 1,2-Dichloroethene (total) | 17            | ug/L  | 29-Sep-99       |               | 1               |
| ETI-R13-S-01-92999 | 1,2-Dichloroethene (total) | 14            | ug/L  | 29-Sep-99       |               | 1               |
| ETI-R14-S-01-92999 | 1,2-Dichloroethene (total) | 13            | ug/L  | 29-Sep-99       |               | 1               |
| ETI-R1E-S-01-92999 | 1,2-Dichloroethene (total) | 11            | ug/L  | 29-Sep-99       |               | 1               |
| ETI-R2E-S-01-92999 | 1,2-Dichloroethene (total) | 2.7           | ug/L  | 29-Sep-99       |               | 1               |
| ETI-R10-S-01-92999 | 1,2-Dichloropropane        | ND            | ug/L  | 29-Sep-99       |               | 2               |
| ETI-R10-S-02-92999 | 1,2-Dichloropropane        | ND            | ug/L  | 29-Sep-99       |               | 2               |
| ETI-R10-S-03-92999 | 1,2-Dichloropropane        | ND            | ug/L  | 29-Sep-99       |               | 2               |
| ETI-R11-S-01-92999 | 1,2-Dichloropropane        | ND            | ug/L  | 29-Sep-99       |               | 1               |
| ETI-R11-S-02-92999 | 1,2-Dichloropropane        | ND            | ug/L  | 29-Sep-99       |               | 1               |
| ETI-R11-S-03-92999 | 1,2-Dichloropropane        | ND            | ug/L  | 29-Sep-99       |               | 1               |
| ETI-R12-S-01-92999 | 1,2-Dichloropropane        | ND            | ug/L  | 29-Sep-99       |               | 1               |
| ETI-R13-S-01-92999 | 1,2-Dichloropropane        | ND            | ug/L  | 29-Sep-99       |               | 1               |
| ETI-R14-S-01-92999 | 1,2-Dichloropropane        | ND            | ug/L  | 29-Sep-99       |               | 1               |
| ETI-R1E-S-01-92999 | 1,2-Dichloropropane        | ND            | ug/L  | 29-Sep-99       |               | 1               |
| ETI-R2E-S-01-92999 | 1,2-Dichloropropane        | ND            | ug/L  | 29-Sep-99       |               | 1               |
| ETI-R10-S-01-92999 | 2-Butanone (MEK)           | 2             | ug/L  | 29-Sep-99 U     |               | 10              |
| ETI-R10-S-02-92999 | 2-Butanone (MEK)           | ND            | ug/L  | 29-Sep-99       |               | 10              |
| ETI-R10-S-03-92999 | 2-Butanone (MEK)           | ND            | ug/L  | 29-Sep-99       |               | 10              |
| ETI-R11-S-01-92999 | 2-Butanone (MEK)           | ND            | ug/L  | 29-Sep-99       |               | 5               |
| ETI-R11-S-02-92999 | 2-Butanone (MEK)           | ND            | ug/L  | 29-Sep-99       |               | 5               |
| ETI-R11-S-03-92999 | 2-Butanone (MEK)           | 1.2           | ug/L  | 29-Sep-99 U     |               | 5               |
| ETI-R12-S-01-92999 | 2-Butanone (MEK)           | 1.6           | ug/L  | 29-Sep-99 U     |               | 5               |
| ETI-R13-S-01-92999 | 2-Butanone (MEK)           | ND            | ug/L  | 29-Sep-99       |               | 5               |
| ETI-R14-S-01-92999 | 2-Butanone (MEK)           | 1.5           | ug/L  | 29-Sep-99 U     |               | 5               |
| ETI-R1E-S-01-92999 | 2-Butanone (MEK)           | 0.76          | ug/L  | 29-Sep-99 U     |               | 5               |
| ETI-R2E-S-01-92999 | 2-Butanone (MEK)           | 1.6           | ug/L  | 29-Sep-99 U     |               | 5               |
| ETI-R10-S-01-92999 | 2-Hexanone                 | ND            | ug/L  | 29-Sep-99       |               | 10              |
| ETI-R10-S-02-92999 | 2-Hexanone                 | ND            | ug/L  | 29-Sep-99       |               | 10              |
| ETI-R10-S-03-92999 | 2-Hexanone                 | ND            | ug/L  | 29-Sep-99       |               | 10              |
| ETI-R11-S-01-92999 | 2-Hexanone                 | ND            | ug/L  | 29-Sep-99       |               | 5               |
| ETI-R11-S-02-92999 | 2-Hexanone                 | ND            | ug/L  | 29-Sep-99       |               | 5               |

Appendix A  
Mound Plume Analytical Data

| Sample Number      | Compound               | Sample Result | Units | Collection Date | Lab Qualifier | Reporting Limit |
|--------------------|------------------------|---------------|-------|-----------------|---------------|-----------------|
| ETI-R11-S-03-92999 | 2-Hexanone             | ND            | ug/L  | 29-Sep-99       |               | 5               |
| ETI-R12-S-01-92999 | 2-Hexanone             | ND            | ug/L  | 29-Sep-99       |               | 5               |
| ETI-R13-S-01-92999 | 2-Hexanone             | ND            | ug/L  | 29-Sep-99       |               | 5               |
| ETI-R14-S-01-92999 | 2-Hexanone             | ND            | ug/L  | 29-Sep-99       |               | 5               |
| ETI-R1E-S-01-92999 | 2-Hexanone             | ND            | ug/L  | 29-Sep-99       |               | 5               |
| ETI-R2E-S-01-92999 | 2-Hexanone             | ND            | ug/L  | 29-Sep-99       |               | 5               |
| ETI-R10-S-01-92999 | 4-Methyl-2-pentanone   | ND            | ug/L  | 29-Sep-99       |               | 10              |
| ETI-R10-S-02-92999 | 4-Methyl-2-pentanone   | ND            | ug/L  | 29-Sep-99       |               | 10              |
| ETI-R10-S-03-92999 | 4-Methyl-2-pentanone   | ND            | ug/L  | 29-Sep-99       |               | 10              |
| ETI-R11-S-01-92999 | 4-Methyl-2-pentanone   | ND            | ug/L  | 29-Sep-99       |               | 5               |
| ETI-R11-S-02-92999 | 4-Methyl-2-pentanone   | ND            | ug/L  | 29-Sep-99       |               | 5               |
| ETI-R11-S-03-92999 | 4-Methyl-2-pentanone   | ND            | ug/L  | 29-Sep-99       |               | 5               |
| ETI-R12-S-01-92999 | 4-Methyl-2-pentanone   | ND            | ug/L  | 29-Sep-99       |               | 5               |
| ETI-R13-S-01-92999 | 4-Methyl-2-pentanone   | ND            | ug/L  | 29-Sep-99       |               | 5               |
| ETI-R14-S-01-92999 | 4-Methyl-2-pentanone   | ND            | ug/L  | 29-Sep-99       |               | 5               |
| ETI-R1E-S-01-92999 | 4-Methyl-2-pentanone   | ND            | ug/L  | 29-Sep-99       |               | 5               |
| ETI-R2E-S-01-92999 | 4-Methyl-2-pentanone   | ND            | ug/L  | 29-Sep-99       |               | 5               |
| ETI-R10-S-02-92999 | Acetone                | ND            | ug/L  | 29-Sep-99       | UJ            | 20              |
| ETI-R10-S-03-92999 | Acetone                | ND            | ug/L  | 29-Sep-99       | UJ            | 20              |
| ETI-R11-S-01-92999 | Acetone                | ND            | ug/L  | 29-Sep-99       | UJ            | 10              |
| ETI-R11-S-02-92999 | Acetone                | ND            | ug/L  | 29-Sep-99       | UJ            | 10              |
| ETI-R11-S-03-92999 | Acetone                | ND            | ug/L  | 29-Sep-99       | UJ            | 10              |
| ETI-R12-S-01-92999 | Acetone                | ND            | ug/L  | 29-Sep-99       | UJ            | 10              |
| ETI-R13-S-01-92999 | Acetone                | ND            | ug/L  | 29-Sep-99       | UJ            | 10              |
| ETI-R14-S-01-92999 | Acetone                | ND            | ug/L  | 29-Sep-99       | UJ            | 10              |
| ETI-R1E-S-01-92999 | Acetone                | ND            | ug/L  | 29-Sep-99       | UJ            | 10              |
| ETI-R2E-S-01-92999 | Acetone                | ND            | ug/L  | 29-Sep-99       | UJ            | 10              |
| ETI-R10-S-01-92999 | Aluminum               | 1950          | ug/L  | 29-Sep-99       |               | 100             |
| ETI-R10-S-01-92999 | Aluminum               | 1980          | ug/L  | 29-Sep-99       |               | 100             |
| ETI-R10-S-01-92999 | Aluminum               | ND            | ug/L  | 29-Sep-99       |               | 100             |
| ETI-R11-S-01-92999 | Aluminum               | ND            | ug/L  | 29-Sep-99       |               | 100             |
| ETI-R12-S-01-92999 | Aluminum               | ND            | ug/L  | 29-Sep-99       |               | 100             |
| ETI-R13-S-01-92999 | Aluminum               | ND            | ug/L  | 29-Sep-99       |               | 100             |
| ETI-R14-S-01-92999 | Aluminum               | ND            | ug/L  | 29-Sep-99       |               | 100             |
| ETI-R1E-S-01-92999 | Aluminum               | ND            | ug/L  | 29-Sep-99       |               | 100             |
| ETI-R10-S-01-92999 | Benzene                | ND            | ug/L  | 29-Sep-99       |               | 2               |
| ETI-R10-S-03-92999 | Benzene                | ND            | ug/L  | 29-Sep-99       |               | 2               |
| ETI-R11-S-01-92999 | Benzene                | 0.13          | ug/L  | 29-Sep-99       | U             | 1               |
| ETI-R11-S-02-92999 | Benzene                | 0.13          | ug/L  | 29-Sep-99       | U             | 1               |
| ETI-R11-S-03-92999 | Benzene                | 0.13          | ug/L  | 29-Sep-99       | U             | 1               |
| ETI-R12-S-01-92999 | Benzene                | 0.22          | ug/L  | 29-Sep-99       | U             | 1               |
| ETI-R13-S-01-92999 | Benzene                | 0.23          | ug/L  | 29-Sep-99       | U             | 1               |
| ETI-R14-S-01-92999 | Benzene                | 0.25          | ug/L  | 29-Sep-99       | U             | 1               |
| ETI-R1E-S-01-92999 | Benzene                | 0.22          | ug/L  | 29-Sep-99       | U             | 1               |
| ETI-R2E-S-01-92999 | Benzene                | 0.3           | ug/L  | 29-Sep-99       | U             | 1               |
| ETI-R10-S-01-92999 | Bicarbonate Alkalinity | 325           | mg/L  | 29-Sep-99       |               | 5               |
| ETI-R11-S-01-92999 | Bicarbonate Alkalinity | 285           | mg/L  | 29-Sep-99       |               | 5               |
| ETI-R12-S-01-92999 | Bicarbonate Alkalinity | 182           | mg/L  | 29-Sep-99       |               | 5               |
| ETI-R13-S-01-92999 | Bicarbonate Alkalinity | 178           | mg/L  | 29-Sep-99       |               | 5               |
| ETI-R14-S-01-92999 | Bicarbonate Alkalinity | 161           | mg/L  | 29-Sep-99       |               | 5               |
| ETI-R1E-S-01-92999 | Bicarbonate Alkalinity | 140           | mg/L  | 29-Sep-99       |               | 5               |
| ETI-R10-S-01-92999 | Bromide                | 0.57          | mg/L  | 29-Sep-99       |               | 0.2             |

Appendix A  
Mound Plume Analytical Data

| Sample Number      | Compound             | Sample Result | Units | Collection Date | Lab Qualifier | Reporting Limit |
|--------------------|----------------------|---------------|-------|-----------------|---------------|-----------------|
| ETI-R11-S-01-92999 | Bromide              | 0.57          | mg/L  | 29-Sep-99       |               | 0.2             |
| ETI-R12-S-01-92999 | Bromide              | 0.58          | mg/L  | 29-Sep-99       |               | 0.2             |
| ETI-R13-S-01-92999 | Bromide              | 0.61          | mg/L  | 29-Sep-99       |               | 0.2             |
| ETI-R14-S-01-92999 | Bromide              | 0.66          | mg/L  | 29-Sep-99       |               | 0.2             |
| ETI-R1E-S-01-92999 | Bromide              | 0.72          | mg/L  | 29-Sep-99       |               | 0.2             |
| ETI-R1E-S-01-92999 | Bromide              | 5.71          | mg/L  | 29-Sep-99       |               | 0.2             |
| ETI-R1E-S-01-92999 | Bromide              | 5.55          | mg/L  | 29-Sep-99       |               | 0.2             |
| ETI-R10-S-01-92999 | Bromodichloromethane | ND            | ug/L  | 29-Sep-99       |               | 2               |
| ETI-R10-S-02-92999 | Bromodichloromethane | ND            | ug/L  | 29-Sep-99       |               | 2               |
| ETI-R10-S-03-92999 | Bromodichloromethane | ND            | ug/L  | 29-Sep-99       |               | 2               |
| ETI-R11-S-01-92999 | Bromodichloromethane | ND            | ug/L  | 29-Sep-99       |               | 1               |
| ETI-R11-S-02-92999 | Bromodichloromethane | ND            | ug/L  | 29-Sep-99       |               | 1               |
| ETI-R11-S-03-92999 | Bromodichloromethane | ND            | ug/L  | 29-Sep-99       |               | 1               |
| ETI-R12-S-01-92999 | Bromodichloromethane | ND            | ug/L  | 29-Sep-99       |               | 1               |
| ETI-R13-S-01-92999 | Bromodichloromethane | ND            | ug/L  | 29-Sep-99       |               | 1               |
| ETI-R14-S-01-92999 | Bromodichloromethane | ND            | ug/L  | 29-Sep-99       |               | 1               |
| ETI-R1E-S-01-92999 | Bromodichloromethane | ND            | ug/L  | 29-Sep-99       |               | 1               |
| ETI-R2E-S-01-92999 | Bromodichloromethane | ND            | ug/L  | 29-Sep-99       |               | 1               |
| ETI-R10-S-01-92999 | Bromoform            | ND            | ug/L  | 29-Sep-99       |               | 2               |
| ETI-R10-S-02-92999 | Bromoform            | ND            | ug/L  | 29-Sep-99       |               | 2               |
| ETI-R10-S-03-92999 | Bromoform            | ND            | ug/L  | 29-Sep-99       |               | 2               |
| ETI-R11-S-01-92999 | Bromoform            | ND            | ug/L  | 29-Sep-99       |               | 1               |
| ETI-R11-S-02-92999 | Bromoform            | ND            | ug/L  | 29-Sep-99       |               | 1               |
| ETI-R11-S-03-92999 | Bromoform            | ND            | ug/L  | 29-Sep-99       |               | 1               |
| ETI-R12-S-01-92999 | Bromoform            | ND            | ug/L  | 29-Sep-99       |               | 1               |
| ETI-R13-S-01-92999 | Bromoform            | ND            | ug/L  | 29-Sep-99       |               | 1               |
| ETI-R14-S-01-92999 | Bromoform            | ND            | ug/L  | 29-Sep-99       |               | 1               |
| ETI-R1E-S-01-92999 | Bromoform            | ND            | ug/L  | 29-Sep-99       |               | 1               |
| ETI-R2E-S-01-92999 | Bromoform            | ND            | ug/L  | 29-Sep-99       |               | 1               |
| ETI-R10-S-01-92999 | Bromomethane         | ND            | ug/L  | 29-Sep-99       |               | 4               |
| ETI-R10-S-02-92999 | Bromomethane         | ND            | ug/L  | 29-Sep-99       |               | 4               |
| ETI-R10-S-03-92999 | Bromomethane         | ND            | ug/L  | 29-Sep-99       |               | 4               |
| ETI-R11-S-01-92999 | Bromomethane         | ND            | ug/L  | 29-Sep-99       |               | 2               |
| ETI-R11-S-02-92999 | Bromomethane         | ND            | ug/L  | 29-Sep-99       |               | 2               |
| ETI-R11-S-03-92999 | Bromomethane         | ND            | ug/L  | 29-Sep-99       |               | 2               |
| ETI-R12-S-01-92999 | Bromomethane         | ND            | ug/L  | 29-Sep-99       |               | 2               |
| ETI-R13-S-01-92999 | Bromomethane         | ND            | ug/L  | 29-Sep-99       |               | 2               |
| ETI-R14-S-01-92999 | Bromomethane         | ND            | ug/L  | 29-Sep-99       |               | 2               |
| ETI-R1E-S-01-92999 | Bromomethane         | ND            | ug/L  | 29-Sep-99       |               | 2               |
| ETI-R2E-S-01-92999 | Bromomethane         | ND            | ug/L  | 29-Sep-99       |               | 2               |
| ETI-R10-S-01-92999 | Calcium              | 149000        | ug/L  | 29-Sep-99       |               | 200             |
| ETI-R10-S-01-92999 | Calcium              | 151000        | ug/L  | 29-Sep-99       |               | 200             |
| ETI-R10-S-01-92999 | Calcium              | 100000        | ug/L  | 29-Sep-99       |               | 200             |
| ETI-R11-S-01-92999 | Calcium              | 74300         | ug/L  | 29-Sep-99       |               | 200             |
| ETI-R12-S-01-92999 | Calcium              | 12100         | ug/L  | 29-Sep-99       |               | 200             |
| ETI-R13-S-01-92999 | Calcium              | 4470          | ug/L  | 29-Sep-99       |               | 200             |
| ETI-R14-S-01-92999 | Calcium              | 2870          | ug/L  | 29-Sep-99       |               | 200             |
| ETI-R1E-S-01-92999 | Calcium              | 2860          | ug/L  | 29-Sep-99       |               | 200             |
| ETI-R10-S-01-92999 | Carbon disulfide     | ND            | ug/L  | 29-Sep-99       |               | 2               |
| ETI-R10-S-02-92999 | Carbon disulfide     | ND            | ug/L  | 29-Sep-99       |               | 2               |
| ETI-R10-S-03-92999 | Carbon disulfide     | ND            | ug/L  | 29-Sep-99       |               | 2               |
| ETI-R11-S-01-92999 | Carbon disulfide     | ND            | ug/L  | 29-Sep-99       |               | 1               |

Appendix A  
Mound Plume Analytical Data

| Sample Number      | Compound             | Sample Result | Units | Collection Date | Lab Qualifier | Reporting Limit |
|--------------------|----------------------|---------------|-------|-----------------|---------------|-----------------|
| ETI-R11-S-02-92999 | Carbon disulfide     | ND            | ug/L  | 29-Sep-99       |               | 1               |
| ETI-R11-S-03-92999 | Carbon disulfide     | ND            | ug/L  | 29-Sep-99       |               | 1               |
| ETI-R12-S-01-92999 | Carbon disulfide     | ND            | ug/L  | 29-Sep-99       |               | 1               |
| ETI-R13-S-01-92999 | Carbon disulfide     | ND            | ug/L  | 29-Sep-99       |               | 1               |
| ETI-R14-S-01-92999 | Carbon disulfide     | ND            | ug/L  | 29-Sep-99       |               | 1               |
| ETI-R1E-S-01-92999 | Carbon disulfide     | ND            | ug/L  | 29-Sep-99       |               | 1               |
| ETI-R2E-S-01-92999 | Carbon disulfide     | ND            | ug/L  | 29-Sep-99       |               | 1               |
| ETI-R10-S-01-92999 | Carbon tetrachloride | 44            | ug/L  | 29-Sep-99       |               | 4.2             |
| ETI-R10-S-02-92999 | Carbon tetrachloride | 58            | ug/L  | 29-Sep-99       |               | 4.2             |
| ETI-R10-S-03-92999 | Carbon tetrachloride | 59            | ug/L  | 29-Sep-99       |               | 4.2             |
| ETI-R11-S-01-92999 | Carbon tetrachloride | ND            | ug/L  | 29-Sep-99       |               | 2.1             |
| ETI-R11-S-02-92999 | Carbon tetrachloride | ND            | ug/L  | 29-Sep-99       |               | 2.1             |
| ETI-R11-S-03-92999 | Carbon tetrachloride | ND            | ug/L  | 29-Sep-99       |               | 2.1             |
| ETI-R12-S-01-92999 | Carbon tetrachloride | ND            | ug/L  | 29-Sep-99       |               | 2.1             |
| ETI-R13-S-01-92999 | Carbon tetrachloride | ND            | ug/L  | 29-Sep-99       |               | 2.1             |
| ETI-R14-S-01-92999 | Carbon tetrachloride | ND            | ug/L  | 29-Sep-99       |               | 2.1             |
| ETI-R1E-S-01-92999 | Carbon tetrachloride | ND            | ug/L  | 29-Sep-99       |               | 2.1             |
| ETI-R2E-S-01-92999 | Carbon tetrachloride | ND            | ug/L  | 29-Sep-99       |               | 2.1             |
| ETI-R10-S-01-92999 | Carbonate Alkalinity | ND            | mg/L  | 29-Sep-99       |               | 5               |
| ETI-R11-S-01-92999 | Carbonate Alkalinity | ND            | mg/L  | 29-Sep-99       |               | 5               |
| ETI-R12-S-01-92999 | Carbonate Alkalinity | 53.6          | mg/L  | 29-Sep-99       |               | 5               |
| ETI-R13-S-01-92999 | Carbonate Alkalinity | 86.4          | mg/L  | 29-Sep-99       |               | 5               |
| ETI-R14-S-01-92999 | Carbonate Alkalinity | 84.7          | mg/L  | 29-Sep-99       |               | 5               |
| ETI-R1E-S-01-92999 | Carbonate Alkalinity | 66.2          | mg/L  | 29-Sep-99       |               | 5               |
| ETI-R10-S-01-92999 | Chloride             | 69.4          | mg/L  | 29-Sep-99       |               | 6               |
| ETI-R11-S-01-92999 | Chloride             | 71.3          | mg/L  | 29-Sep-99       |               | 6               |
| ETI-R12-S-01-92999 | Chloride             | 75.1          | mg/L  | 29-Sep-99       |               | 6               |
| ETI-R13-S-01-92999 | Chloride             | 79.1          | mg/L  | 29-Sep-99       |               | 6               |
| ETI-R14-S-01-92999 | Chloride             | 79.7          | mg/L  | 29-Sep-99       |               | 6               |
| ETI-R1E-S-01-92999 | Chloride             | 75.9          | mg/L  | 29-Sep-99       |               | 15              |
| ETI-R1E-S-01-92999 | Chloride             | 206           | mg/L  | 29-Sep-99       |               | 15              |
| ETI-R1E-S-01-92999 | Chloride             | 206           | mg/L  | 29-Sep-99       |               | 15              |
| ETI-R10-S-01-92999 | Chlorobenzene        | ND            | ug/L  | 29-Sep-99       |               | 2               |
| ETI-R10-S-02-92999 | Chlorobenzene        | ND            | ug/L  | 29-Sep-99       |               | 2               |
| ETI-R10-S-03-92999 | Chlorobenzene        | ND            | ug/L  | 29-Sep-99       |               | 2               |
| ETI-R11-S-01-92999 | Chlorobenzene        | ND            | ug/L  | 29-Sep-99       |               | 1               |
| ETI-R11-S-02-92999 | Chlorobenzene        | ND            | ug/L  | 29-Sep-99       |               | 1               |
| ETI-R11-S-03-92999 | Chlorobenzene        | ND            | ug/L  | 29-Sep-99       |               | 1               |
| ETI-R12-S-01-92999 | Chlorobenzene        | ND            | ug/L  | 29-Sep-99       |               | 1               |
| ETI-R13-S-01-92999 | Chlorobenzene        | ND            | ug/L  | 29-Sep-99       |               | 1               |
| ETI-R14-S-01-92999 | Chlorobenzene        | ND            | ug/L  | 29-Sep-99       |               | 1               |
| ETI-R1E-S-01-92999 | Chlorobenzene        | ND            | ug/L  | 29-Sep-99       |               | 1               |
| ETI-R2E-S-01-92999 | Chlorobenzene        | ND            | ug/L  | 29-Sep-99       |               | 1               |
| ETI-R10-S-01-92999 | Chloroethane         | ND            | ug/L  | 29-Sep-99       |               | 4               |
| ETI-R10-S-02-92999 | Chloroethane         | ND            | ug/L  | 29-Sep-99       |               | 4               |
| ETI-R10-S-03-92999 | Chloroethane         | ND            | ug/L  | 29-Sep-99       |               | 4               |
| ETI-R11-S-01-92999 | Chloroethane         | ND            | ug/L  | 29-Sep-99       |               | 2               |
| ETI-R11-S-02-92999 | Chloroethane         | ND            | ug/L  | 29-Sep-99       |               | 2               |
| ETI-R11-S-03-92999 | Chloroethane         | ND            | ug/L  | 29-Sep-99       |               | 2               |
| ETI-R12-S-01-92999 | Chloroethane         | ND            | ug/L  | 29-Sep-99       |               | 2               |
| ETI-R13-S-01-92999 | Chloroethane         | ND            | ug/L  | 29-Sep-99       |               | 2               |
| ETI-R14-S-01-92999 | Chloroethane         | ND            | ug/L  | 29-Sep-99       |               | 2               |

Appendix A  
Mound Plume Analytical Data

| Sample Number      | Compound                | Sample Result | Units | Collection Date | Lab Qualifier | Reporting Limit |
|--------------------|-------------------------|---------------|-------|-----------------|---------------|-----------------|
| ETI-R1E-S-01-92999 | Chloroethane            | ND            | ug/L  | 29-Sep-99       |               | 2               |
| ETI-R2E-S-01-92999 | Chloroethane            | ND            | ug/L  | 29-Sep-99       |               | 2               |
| ETI-R10-S-01-92999 | Chloroform              | 10            | ug/L  | 29-Sep-99       |               | 1               |
| ETI-R10-S-02-92999 | Chloroform              | 13            | ug/L  | 29-Sep-99       |               | 1               |
| ETI-R10-S-03-92999 | Chloroform              | 13            | ug/L  | 29-Sep-99       |               | 1               |
| ETI-R11-S-01-92999 | Chloroform              | 13            | ug/L  | 29-Sep-99       |               | 0.5             |
| ETI-R11-S-02-92999 | Chloroform              | 13            | ug/L  | 29-Sep-99       |               | 0.5             |
| ETI-R11-S-03-92999 | Chloroform              | 13            | ug/L  | 29-Sep-99       |               | 0.5             |
| ETI-R12-S-01-92999 | Chloroform              | 14            | ug/L  | 29-Sep-99       |               | 0.5             |
| ETI-R13-S-01-92999 | Chloroform              | 9.6           | ug/L  | 29-Sep-99       |               | 0.5             |
| ETI-R14-S-01-92999 | Chloroform              | 4.2           | ug/L  | 29-Sep-99       |               | 0.5             |
| ETI-R1E-S-01-92999 | Chloroform              | 1             | ug/L  | 29-Sep-99       |               | 0.5             |
| ETI-R2E-S-01-92999 | Chloroform              | ND            | ug/L  | 29-Sep-99       |               | 0.5             |
| ETI-R10-S-01-92999 | Chloromethane           | ND            | ug/L  | 29-Sep-99       |               | 4               |
| ETI-R10-S-02-92999 | Chloromethane           | ND            | ug/L  | 29-Sep-99       |               | 4               |
| ETI-R10-S-03-92999 | Chloromethane           | ND            | ug/L  | 29-Sep-99       |               | 4               |
| ETI-R11-S-01-92999 | Chloromethane           | ND            | ug/L  | 29-Sep-99       |               | 2               |
| ETI-R11-S-02-92999 | Chloromethane           | ND            | ug/L  | 29-Sep-99       |               | 2               |
| ETI-R11-S-03-92999 | Chloromethane           | ND            | ug/L  | 29-Sep-99       |               | 2               |
| ETI-R12-S-01-92999 | Chloromethane           | ND            | ug/L  | 29-Sep-99       |               | 2               |
| ETI-R13-S-01-92999 | Chloromethane           | ND            | ug/L  | 29-Sep-99       |               | 2               |
| ETI-R14-S-01-92999 | Chloromethane           | 0.65          | ug/L  | 29-Sep-99       |               | 2               |
| ETI-R1E-S-01-92999 | Chloromethane           | ND            | ug/L  | 29-Sep-99       |               | 2               |
| ETI-R2E-S-01-92999 | Chloromethane           | ND            | ug/L  | 29-Sep-99       |               | 2               |
| ETI-R10-S-01-92999 | cis-1,2-Dichloroethene  | 18            | ug/L  | 29-Sep-99       |               | 2.4             |
| ETI-R10-S-02-92999 | cis-1,2-Dichloroethene  | 22            | ug/L  | 29-Sep-99       |               | 2.4             |
| ETI-R10-S-03-92999 | cis-1,2-Dichloroethene  | 23            | ug/L  | 29-Sep-99       |               | 2.4             |
| ETI-R11-S-01-92999 | cis-1,2-Dichloroethene  | 23            | ug/L  | 29-Sep-99       |               | 1.2             |
| ETI-R11-S-02-92999 | cis-1,2-Dichloroethene  | 23            | ug/L  | 29-Sep-99       |               | 1.2             |
| ETI-R11-S-03-92999 | cis-1,2-Dichloroethene  | 23            | ug/L  | 29-Sep-99       |               | 1.2             |
| ETI-R12-S-01-92999 | cis-1,2-Dichloroethene  | 17            | ug/L  | 29-Sep-99       |               | 1.2             |
| ETI-R13-S-01-92999 | cis-1,2-Dichloroethene  | 14            | ug/L  | 29-Sep-99       |               | 1.2             |
| ETI-R14-S-01-92999 | cis-1,2-Dichloroethene  | 13            | ug/L  | 29-Sep-99       |               | 1.2             |
| ETI-R1E-S-01-92999 | cis-1,2-Dichloroethene  | 11            | ug/L  | 29-Sep-99       |               | 1.2             |
| ETI-R2E-S-01-92999 | cis-1,2-Dichloroethene  | 2.7           | ug/L  | 29-Sep-99       |               | 1.2             |
| ETI-R10-S-01-92999 | cis-1,3-Dichloropropene | ND            | ug/L  | 29-Sep-99       |               | 2               |
| ETI-R10-S-02-92999 | cis-1,3-Dichloropropene | ND            | ug/L  | 29-Sep-99       |               | 2               |
| ETI-R10-S-03-92999 | cis-1,3-Dichloropropene | ND            | ug/L  | 29-Sep-99       |               | 2               |
| ETI-R11-S-01-92999 | cis-1,3-Dichloropropene | ND            | ug/L  | 29-Sep-99       |               | 1               |
| ETI-R11-S-02-92999 | cis-1,3-Dichloropropene | ND            | ug/L  | 29-Sep-99       |               | 1               |
| ETI-R11-S-03-92999 | cis-1,3-Dichloropropene | ND            | ug/L  | 29-Sep-99       |               | 1               |
| ETI-R12-S-01-92999 | cis-1,3-Dichloropropene | ND            | ug/L  | 29-Sep-99       |               | 1               |
| ETI-R13-S-01-92999 | cis-1,3-Dichloropropene | ND            | ug/L  | 29-Sep-99       |               | 1               |
| ETI-R14-S-01-92999 | cis-1,3-Dichloropropene | ND            | ug/L  | 29-Sep-99       |               | 1               |
| ETI-R1E-S-01-92999 | cis-1,3-Dichloropropene | ND            | ug/L  | 29-Sep-99       |               | 1               |
| ETI-R2E-S-01-92999 | cis-1,3-Dichloropropene | ND            | ug/L  | 29-Sep-99       |               | 1               |
| ETI-R10-S-01-92999 | Dibromochloromethane    | ND            | ug/L  | 29-Sep-99       |               | 2               |
| ETI-R10-S-02-92999 | Dibromochloromethane    | ND            | ug/L  | 29-Sep-99       |               | 2               |
| ETI-R10-S-03-92999 | Dibromochloromethane    | ND            | ug/L  | 29-Sep-99       |               | 2               |
| ETI-R11-S-01-92999 | Dibromochloromethane    | ND            | ug/L  | 29-Sep-99       |               | 1               |
| ETI-R11-S-02-92999 | Dibromochloromethane    | ND            | ug/L  | 29-Sep-99       |               | 1               |
| ETI-R11-S-03-92999 | Dibromochloromethane    | ND            | ug/L  | 29-Sep-99       |               | 1               |

Appendix A  
Mound Plume Analytical Data

| Sample Number      | Compound             | Sample Result | Units | Collection Date | Lab Qualifier | Reporting Limit |
|--------------------|----------------------|---------------|-------|-----------------|---------------|-----------------|
| ETI-R12-S-01-92999 | Dibromochloromethane | ND            | ug/L  | 29-Sep-99       |               | 1               |
| ETI-R13-S-01-92999 | Dibromochloromethane | ND            | ug/L  | 29-Sep-99       |               | 1               |
| ETI-R14-S-01-92999 | Dibromochloromethane | ND            | ug/L  | 29-Sep-99       |               | 1               |
| ETI-R1E-S-01-92999 | Dibromochloromethane | ND            | ug/L  | 29-Sep-99       |               | 1               |
| ETI-R2E-S-01-92999 | Dibromochloromethane | ND            | ug/L  | 29-Sep-99       |               | 1               |
| ETI-R10-S-01-92999 | Ethylbenzene         | ND            | ug/L  | 29-Sep-99       |               | 2               |
| ETI-R10-S-02-92999 | Ethylbenzene         | ND            | ug/L  | 29-Sep-99       |               | 2               |
| ETI-R10-S-03-92999 | Ethylbenzene         | ND            | ug/L  | 29-Sep-99       |               | 2               |
| ETI-R11-S-01-92999 | Ethylbenzene         | ND            | ug/L  | 29-Sep-99       |               | 1               |
| ETI-R11-S-02-92999 | Ethylbenzene         | ND            | ug/L  | 29-Sep-99       |               | 1               |
| ETI-R11-S-03-92999 | Ethylbenzene         | ND            | ug/L  | 29-Sep-99       |               | 1               |
| ETI-R12-S-01-92999 | Ethylbenzene         | ND            | ug/L  | 29-Sep-99       |               | 1               |
| ETI-R13-S-01-92999 | Ethylbenzene         | ND            | ug/L  | 29-Sep-99       |               | 1               |
| ETI-R14-S-01-92999 | Ethylbenzene         | ND            | ug/L  | 29-Sep-99       |               | 1               |
| ETI-R1E-S-01-92999 | Ethylbenzene         | ND            | ug/L  | 29-Sep-99       |               | 1               |
| ETI-R2E-S-01-92999 | Ethylbenzene         | ND            | ug/L  | 29-Sep-99       |               | 1               |
| ETI-R10-S-01-92999 | Fluoride             | 1.2           | mg/L  | 29-Sep-99       |               | 1               |
| ETI-R11-S-01-92999 | Fluoride             | 0.88          | mg/L  | 29-Sep-99       |               | 1               |
| ETI-R12-S-01-92999 | Fluoride             | 0.5           | mg/L  | 29-Sep-99       |               | 1               |
| ETI-R13-S-01-92999 | Fluoride             | 0.37          | mg/L  | 29-Sep-99       |               | 1               |
| ETI-R14-S-01-92999 | Fluoride             | 0.47          | mg/L  | 29-Sep-99       |               | 1               |
| ETI-R1E-S-01-92999 | Fluoride             | 5.4           | mg/L  | 29-Sep-99       |               | 1               |
| ETI-R1E-S-01-92999 | Fluoride             | 5.52          | mg/L  | 29-Sep-99       |               | 1               |
| ETI-R1E-S-01-92999 | Fluoride             | 0.61          | mg/L  | 29-Sep-99       |               | 1               |
| ETI-R10-S-01-92999 | Iron                 | 999           | ug/L  | 29-Sep-99       |               | 100             |
| ETI-R10-S-01-92999 | Iron                 | 994           | ug/L  | 29-Sep-99       |               | 100             |
| ETI-R10-S-01-92999 | Iron                 | 10.4          | ug/L  | 29-Sep-99       |               | 100             |
| ETI-R11-S-01-92999 | Iron                 | 15500         | ug/L  | 29-Sep-99       |               | 100             |
| ETI-R12-S-01-92999 | Iron                 | 497           | ug/L  | 29-Sep-99       |               | 100             |
| ETI-R13-S-01-92999 | Iron                 | 175           | ug/L  | 29-Sep-99       |               | 100             |
| ETI-R14-S-01-92999 | Iron                 | 110           | ug/L  | 29-Sep-99       |               | 100             |
| ETI-R1E-S-01-92999 | Iron                 | 14.2          | ug/L  | 29-Sep-99       |               | 100             |
| ETI-R10-S-01-92999 | Magnesium            | 85300         | ug/L  | 29-Sep-99       |               | 200             |
| ETI-R10-S-01-92999 | Magnesium            | 31100         | ug/L  | 29-Sep-99       |               | 200             |
| ETI-R10-S-01-92999 | Magnesium            | 84300         | ug/L  | 29-Sep-99       |               | 200             |
| ETI-R11-S-01-92999 | Magnesium            | 32900         | ug/L  | 29-Sep-99       |               | 200             |
| ETI-R12-S-01-92999 | Magnesium            | 50600         | ug/L  | 29-Sep-99       |               | 200             |
| ETI-R13-S-01-92999 | Magnesium            | 57600         | ug/L  | 29-Sep-99       |               | 200             |
| ETI-R14-S-01-92999 | Magnesium            | 48000         | ug/L  | 29-Sep-99       |               | 200             |
| ETI-R1E-S-01-92999 | Magnesium            | 35100         | ug/L  | 29-Sep-99       |               | 200             |
| ETI-R10-S-01-92999 | Manganese            | 59.8          | ug/L  | 29-Sep-99       |               | 10              |
| ETI-R10-S-01-92999 | Manganese            | 571           | ug/L  | 29-Sep-99       |               | 10              |
| ETI-R10-S-01-92999 | Manganese            | 578           | ug/L  | 29-Sep-99       |               | 10              |
| ETI-R11-S-01-92999 | Manganese            | 170           | ug/L  | 29-Sep-99       |               | 10              |
| ETI-R12-S-01-92999 | Manganese            | 120           | ug/L  | 29-Sep-99       |               | 10              |
| ETI-R13-S-01-92999 | Manganese            | 132           | ug/L  | 29-Sep-99       |               | 10              |
| ETI-R14-S-01-92999 | Manganese            | 98.2          | ug/L  | 29-Sep-99       |               | 10              |
| ETI-R1E-S-01-92999 | Manganese            | 89.2          | ug/L  | 29-Sep-99       |               | 10              |
| ETI-R10-S-01-92999 | Methylene chloride   | 0.87          | ug/L  | 29-Sep-99 U     |               | 10              |
| ETI-R10-S-02-92999 | Methylene chloride   | 0.58          | ug/L  | 29-Sep-99 U     |               | 10              |
| ETI-R10-S-03-92999 | Methylene chloride   | 0.64          | ug/L  | 29-Sep-99 U     |               | 10              |
| ETI-R11-S-01-92999 | Methylene chloride   | 2.5           | ug/L  | 29-Sep-99 U     |               | 5               |

Appendix A  
Mound Plume Analytical Data

| Sample Number      | Compound              | Sample Result | Units | Collection Date | Lab Qualifier | Reporting Limit |
|--------------------|-----------------------|---------------|-------|-----------------|---------------|-----------------|
| ETI-R11-S-02-92999 | Methylene chloride    | 2.3           | ug/L  | 29-Sep-99       | U             | 5               |
| ETI-R11-S-03-92999 | Methylene chloride    | 2.4           | ug/L  | 29-Sep-99       | U             | 5               |
| ETI-R12-S-01-92999 | Methylene chloride    | 2.3           | ug/L  | 29-Sep-99       | U             | 5               |
| ETI-R13-S-01-92999 | Methylene chloride    | 1.6           | ug/L  | 29-Sep-99       | U             | 5               |
| ETI-R14-S-01-92999 | Methylene chloride    | 0.81          | ug/L  | 29-Sep-99       | U             | 5               |
| ETI-R1E-S-01-92999 | Methylene chloride    | 0.34          | ug/L  | 29-Sep-99       | U             | 5               |
| ETI-R10-S-01-92999 | Nitrate-Nitrite       | 1.8           | mg/L  | 29-Sep-99       |               | 0.1             |
| ETI-R11-S-01-92999 | Nitrate-Nitrite       | ND            | mg/L  | 29-Sep-99       |               | 0.1             |
| ETI-R12-S-01-92999 | Nitrate-Nitrite       | 0.12          | mg/L  | 29-Sep-99       |               | 0.1             |
| ETI-R13-S-01-92999 | Nitrate-Nitrite       | 0.069         | mg/L  | 29-Sep-99       |               | 0.1             |
| ETI-R14-S-01-92999 | Nitrate-Nitrite       | 0.041         | mg/L  | 29-Sep-99       |               | 0.1             |
| ETI-R1E-S-01-92999 | Nitrate-Nitrite       | ND            | mg/L  | 29-Sep-99       |               | 0.1             |
| ETI-R10-S-01-92999 | Phosphate as P, Ortho | ND            | mg/L  | 29-Sep-99       |               | 0.5             |
| ETI-R11-S-01-92999 | Phosphate as P, Ortho | ND            | mg/L  | 29-Sep-99       |               | 0.5             |
| ETI-R12-S-01-92999 | Phosphate as P, Ortho | ND            | mg/L  | 29-Sep-99       |               | 0.5             |
| ETI-R13-S-01-92999 | Phosphate as P, Ortho | ND            | mg/L  | 29-Sep-99       |               | 0.5             |
| ETI-R14-S-01-92999 | Phosphate as P, Ortho | ND            | mg/L  | 29-Sep-99       |               | 0.5             |
| ETI-R1E-S-01-92999 | Phosphate as P, Ortho | ND            | mg/L  | 29-Sep-99       |               | 0.5             |
| ETI-R1E-S-01-92999 | Phosphate as P, Ortho | 5.21          | mg/L  | 29-Sep-99       |               | 0.5             |
| ETI-R1E-S-01-92999 | Phosphate as P, Ortho | 5.05          | mg/L  | 29-Sep-99       |               | 0.5             |
| ETI-R10-S-01-92999 | Potassium             | 51800         | ug/L  | 29-Sep-99       |               | 5000            |
| ETI-R10-S-01-92999 | Potassium             | 52300         | ug/L  | 29-Sep-99       |               | 5000            |
| ETI-R10-S-01-92999 | Potassium             | 778           | ug/L  | 29-Sep-99       |               | 5000            |
| ETI-R11-S-01-92999 | Potassium             | 1350          | ug/L  | 29-Sep-99       |               | 5000            |
| ETI-R12-S-01-92999 | Potassium             | 1100          | ug/L  | 29-Sep-99       |               | 5000            |
| ETI-R13-S-01-92999 | Potassium             | 1470          | ug/L  | 29-Sep-99       |               | 5000            |
| ETI-R14-S-01-92999 | Potassium             | 1400          | ug/L  | 29-Sep-99       |               | 5000            |
| ETI-R1E-S-01-92999 | Potassium             | 1010          | ug/L  | 29-Sep-99       |               | 5000            |
| ETI-R10-S-01-92999 | Silica                | 14100         | ug/L  | 29-Sep-99       |               | 500             |
| ETI-R10-S-01-92999 | Silica                | 37500         | ug/L  | 29-Sep-99       |               | 500             |
| ETI-R10-S-01-92999 | Silica                | 37600         | ug/L  | 29-Sep-99       |               | 500             |
| ETI-R11-S-01-92999 | Silica                | 11000         | ug/L  | 29-Sep-99       |               | 500             |
| ETI-R12-S-01-92999 | Silica                | 2350          | ug/L  | 29-Sep-99       |               | 500             |
| ETI-R13-S-01-92999 | Silica                | 867           | ug/L  | 29-Sep-99       |               | 500             |
| ETI-R14-S-01-92999 | Silica                | 598           | ug/L  | 29-Sep-99       |               | 500             |
| ETI-R1E-S-01-92999 | Silica                | 996           | ug/L  | 29-Sep-99       |               | 500             |
| ETI-R10-S-01-92999 | Sodium                | 58200         | ug/L  | 29-Sep-99       |               | 5000            |
| ETI-R10-S-01-92999 | Sodium                | 111000        | ug/L  | 29-Sep-99       |               | 5000            |
| ETI-R10-S-01-92999 | Sodium                | 112000        | ug/L  | 29-Sep-99       |               | 5000            |
| ETI-R11-S-01-92999 | Sodium                | 60200         | ug/L  | 29-Sep-99       |               | 5000            |
| ETI-R12-S-01-92999 | Sodium                | 67900         | ug/L  | 29-Sep-99       |               | 5000            |
| ETI-R13-S-01-92999 | Sodium                | 77900         | ug/L  | 29-Sep-99       |               | 5000            |
| ETI-R14-S-01-92999 | Sodium                | 82400         | ug/L  | 29-Sep-99       |               | 5000            |
| ETI-R1E-S-01-92999 | Sodium                | 84200         | ug/L  | 29-Sep-99       |               | 5000            |
| ETI-R10-S-01-92999 | Styrene               | ND            | ug/L  | 29-Sep-99       |               | 2               |
| ETI-R10-S-02-92999 | Styrene               | ND            | ug/L  | 29-Sep-99       |               | 2               |
| ETI-R10-S-03-92999 | Styrene               | ND            | ug/L  | 29-Sep-99       |               | 2               |
| ETI-R11-S-01-92999 | Styrene               | ND            | ug/L  | 29-Sep-99       |               | 1               |
| ETI-R11-S-02-92999 | Styrene               | ND            | ug/L  | 29-Sep-99       |               | 1               |
| ETI-R11-S-03-92999 | Styrene               | ND            | ug/L  | 29-Sep-99       |               | 1               |
| ETI-R12-S-01-92999 | Styrene               | ND            | ug/L  | 29-Sep-99       |               | 1               |
| ETI-R13-S-01-92999 | Styrene               | ND            | ug/L  | 29-Sep-99       |               | 1               |

Appendix A  
Mound Plume Analytical Data

| Sample Number      | Compound                  | Sample Result | Units | Collection Date | Lab Qualifier | Reporting Limit |
|--------------------|---------------------------|---------------|-------|-----------------|---------------|-----------------|
| ETI-R14-S-01-92999 | Styrene                   | ND            | ug/L  | 29-Sep-99       |               | 1               |
| ETI-R1E-S-01-92999 | Styrene                   | ND            | ug/L  | 29-Sep-99       |               | 1               |
| ETI-R2E-S-01-92999 | Styrene                   | ND            | ug/L  | 29-Sep-99       |               | 1               |
| ETI-R10-S-01-92999 | Sulfate                   | 47.2          | mg/L  | 29-Sep-99       |               | 10              |
| ETI-R11-S-01-92999 | Sulfate                   | 34.5          | mg/L  | 29-Sep-99       |               | 5               |
| ETI-R12-S-01-92999 | Sulfate                   | 19.6          | mg/L  | 29-Sep-99       |               | 5               |
| ETI-R13-S-01-92999 | Sulfate                   | 12.4          | mg/L  | 29-Sep-99       |               | 5               |
| ETI-R14-S-01-92999 | Sulfate                   | 6             | mg/L  | 29-Sep-99       |               | 5               |
| ETI-R1E-S-01-92999 | Sulfate                   | 25.6          | mg/L  | 29-Sep-99       |               | 5               |
| ETI-R1E-S-01-92999 | Sulfate                   | 26            | mg/L  | 29-Sep-99       |               | 5               |
| ETI-R1E-S-01-92999 | Sulfate                   | 2.1           | mg/L  | 29-Sep-99       |               | 5               |
| ETI-R10-S-01-92999 | Tetrachloroethene         | 37            | ug/L  | 29-Sep-99       |               | 2.8             |
| ETI-R10-S-02-92999 | Tetrachloroethene         | 46            | ug/L  | 29-Sep-99       |               | 2.8             |
| ETI-R10-S-03-92999 | Tetrachloroethene         | 46            | ug/L  | 29-Sep-99       |               | 2.8             |
| ETI-R11-S-01-92999 | Tetrachloroethene         | 38            | ug/L  | 29-Sep-99       |               | 1.4             |
| ETI-R11-S-02-92999 | Tetrachloroethene         | 38            | ug/L  | 29-Sep-99       |               | 1.4             |
| ETI-R11-S-03-92999 | Tetrachloroethene         | 39            | ug/L  | 29-Sep-99       |               | 1.4             |
| ETI-R12-S-01-92999 | Tetrachloroethene         | 6.6           | ug/L  | 29-Sep-99       |               | 1.4             |
| ETI-R13-S-01-92999 | Tetrachloroethene         | 3.9           | ug/L  | 29-Sep-99       |               | 1.4             |
| ETI-R14-S-01-92999 | Tetrachloroethene         | 2.8           | ug/L  | 29-Sep-99       |               | 1.4             |
| ETI-R1E-S-01-92999 | Tetrachloroethene         | 1.9           | ug/L  | 29-Sep-99       |               | 1.4             |
| ETI-R2E-S-01-92999 | Tetrachloroethene         | ND            | ug/L  | 29-Sep-99       |               | 1.4             |
| ETI-R10-S-01-92999 | Toluene                   | 0.27          | ug/L  | 29-Sep-99       |               | 2               |
| ETI-R10-S-02-92999 | Toluene                   | 0.3           | ug/L  | 29-Sep-99       |               | 2               |
| ETI-R10-S-03-92999 | Toluene                   | 0.27          | ug/L  | 29-Sep-99       |               | 2               |
| ETI-R11-S-01-92999 | Toluene                   | 0.19          | ug/L  | 29-Sep-99       |               | 1               |
| ETI-R11-S-02-92999 | Toluene                   | 0.17          | ug/L  | 29-Sep-99       |               | 1               |
| ETI-R11-S-03-92999 | Toluene                   | 0.18          | ug/L  | 29-Sep-99       |               | 1               |
| ETI-R12-S-01-92999 | Toluene                   | 0.23          | ug/L  | 29-Sep-99       |               | 1               |
| ETI-R13-S-01-92999 | Toluene                   | 0.24          | ug/L  | 29-Sep-99       |               | 1               |
| ETI-R14-S-01-92999 | Toluene                   | 0.21          | ug/L  | 29-Sep-99       |               | 1               |
| ETI-R1E-S-01-92999 | Toluene                   | 0.2           | ug/L  | 29-Sep-99       |               | 1               |
| ETI-R2E-S-01-92999 | Toluene                   | 0.31          | ug/L  | 29-Sep-99       |               | 1               |
| ETI-R10-S-01-92999 | Total Alkalinity          | 325           | mg/L  | 29-Sep-99       |               | 5               |
| ETI-R11-S-01-92999 | Total Alkalinity          | 285           | mg/L  | 29-Sep-99       |               | 5               |
| ETI-R12-S-01-92999 | Total Alkalinity          | 235           | mg/L  | 29-Sep-99       |               | 5               |
| ETI-R13-S-01-92999 | Total Alkalinity          | 265           | mg/L  | 29-Sep-99       |               | 5               |
| ETI-R14-S-01-92999 | Total Alkalinity          | 246           | mg/L  | 29-Sep-99       |               | 5               |
| ETI-R1E-S-01-92999 | Total Alkalinity          | 206           | mg/L  | 29-Sep-99       |               | 5               |
| ETI-R10-S-01-92999 | TOTAL-URANIUM             | 9.04          | UG/L  | 29-Sep-99 J     |               |                 |
| ETI-R10-S-01-92999 | trans-1,2-Dichloroethene  | ND            | ug/L  | 29-Sep-99       |               | 1               |
| ETI-R10-S-02-92999 | trans-1,2-Dichloroethene  | ND            | ug/L  | 29-Sep-99       |               | 1               |
| ETI-R10-S-03-92999 | trans-1,2-Dichloroethene  | ND            | ug/L  | 29-Sep-99       |               | 1               |
| ETI-R11-S-01-92999 | trans-1,2-Dichloroethene  | ND            | ug/L  | 29-Sep-99       |               | 0.5             |
| ETI-R11-S-02-92999 | trans-1,2-Dichloroethene  | ND            | ug/L  | 29-Sep-99       |               | 0.5             |
| ETI-R11-S-03-92999 | trans-1,2-Dichloroethene  | ND            | ug/L  | 29-Sep-99       |               | 0.5             |
| ETI-R12-S-01-92999 | trans-1,2-Dichloroethene  | ND            | ug/L  | 29-Sep-99       |               | 0.5             |
| ETI-R13-S-01-92999 | trans-1,2-Dichloroethene  | ND            | ug/L  | 29-Sep-99       |               | 0.5             |
| ETI-R14-S-01-92999 | trans-1,2-Dichloroethene  | ND            | ug/L  | 29-Sep-99       |               | 0.5             |
| ETI-R1E-S-01-92999 | trans-1,2-Dichloroethene  | ND            | ug/L  | 29-Sep-99       |               | 0.5             |
| ETI-R2E-S-01-92999 | trans-1,2-Dichloroethene  | ND            | ug/L  | 29-Sep-99       |               | 0.5             |
| ETI-R10-S-01-92999 | trans-1,3-Dichloropropene | ND            | ug/L  | 29-Sep-99       |               | 2               |

Appendix A  
Mound Plume Analytical Data

| Sample Number      | Compound                  | Sample Result | Units | Collection Date | Lab Qualifier | Reporting Limit |
|--------------------|---------------------------|---------------|-------|-----------------|---------------|-----------------|
| ETI-R10-S-02-92999 | trans-1,3-Dichloropropene | ND            | ug/L  | 29-Sep-99       |               | 2               |
| ETI-R10-S-03-92999 | trans-1,3-Dichloropropene | ND            | ug/L  | 29-Sep-99       |               | 2               |
| ETI-R11-S-01-92999 | trans-1,3-Dichloropropene | ND            | ug/L  | 29-Sep-99       |               | 1               |
| ETI-R11-S-02-92999 | trans-1,3-Dichloropropene | ND            | ug/L  | 29-Sep-99       |               | 1               |
| ETI-R11-S-03-92999 | trans-1,3-Dichloropropene | ND            | ug/L  | 29-Sep-99       |               | 1               |
| ETI-R12-S-01-92999 | trans-1,3-Dichloropropene | ND            | ug/L  | 29-Sep-99       |               | 1               |
| ETI-R13-S-01-92999 | trans-1,3-Dichloropropene | ND            | ug/L  | 29-Sep-99       |               | 1               |
| ETI-R14-S-01-92999 | trans-1,3-Dichloropropene | ND            | ug/L  | 29-Sep-99       |               | 1               |
| ETI-R1E-S-01-92999 | trans-1,3-Dichloropropene | ND            | ug/L  | 29-Sep-99       |               | 1               |
| ETI-R2E-S-01-92999 | trans-1,3-Dichloropropene | ND            | ug/L  | 29-Sep-99       |               | 1               |
| ETI-R10-S-01-92999 | Trichloroethene           | 55            | ug/L  | 29-Sep-99       |               | 2               |
| ETI-R10-S-02-92999 | Trichloroethene           | 72            | ug/L  | 29-Sep-99       |               | 2               |
| ETI-R10-S-03-92999 | Trichloroethene           | 73            | ug/L  | 29-Sep-99       |               | 2               |
| ETI-R11-S-01-92999 | Trichloroethene           | 43            | ug/L  | 29-Sep-99       |               | 1               |
| ETI-R11-S-02-92999 | Trichloroethene           | 43            | ug/L  | 29-Sep-99       |               | 1               |
| ETI-R11-S-03-92999 | Trichloroethene           | 43            | ug/L  | 29-Sep-99       |               | 1               |
| ETI-R12-S-01-92999 | Trichloroethene           | 7             | ug/L  | 29-Sep-99       |               | 1               |
| ETI-R13-S-01-92999 | Trichloroethene           | 3.8           | ug/L  | 29-Sep-99       |               | 1               |
| ETI-R14-S-01-92999 | Trichloroethene           | 1.8           | ug/L  | 29-Sep-99       |               | 1               |
| ETI-R1E-S-01-92999 | Trichloroethene           | 1.7           | ug/L  | 29-Sep-99       |               | 1               |
| ETI-R2E-S-01-92999 | Trichloroethene           | ND            | ug/L  | 29-Sep-99       |               | 1               |
| ETI-R10-S-01-92999 | Vinyl chloride            | ND            | ug/L  | 29-Sep-99       |               | 2.2             |
| ETI-R10-S-02-92999 | Vinyl chloride            | ND            | ug/L  | 29-Sep-99       |               | 2.2             |
| ETI-R10-S-03-92999 | Vinyl chloride            | ND            | ug/L  | 29-Sep-99       |               | 2.2             |
| ETI-R11-S-01-92999 | Vinyl chloride            | 0.22          | ug/L  | 29-Sep-99       |               | 1.1             |
| ETI-R11-S-02-92999 | Vinyl chloride            | 0.26          | ug/L  | 29-Sep-99       |               | 1.1             |
| ETI-R11-S-03-92999 | Vinyl chloride            | 0.26          | ug/L  | 29-Sep-99       |               | 1.1             |
| ETI-R12-S-01-92999 | Vinyl chloride            | 0.31          | ug/L  | 29-Sep-99       |               | 1.1             |
| ETI-R13-S-01-92999 | Vinyl chloride            | 0.25          | ug/L  | 29-Sep-99       |               | 1.1             |
| ETI-R14-S-01-92999 | Vinyl chloride            | 0.29          | ug/L  | 29-Sep-99       |               | 1.1             |
| ETI-R1E-S-01-92999 | Vinyl chloride            | 0.26          | ug/L  | 29-Sep-99       |               | 1.1             |
| ETI-R2E-S-01-92999 | Vinyl chloride            | 0.18          | ug/L  | 29-Sep-99       |               | 1.1             |
| ETI-R10-S-01-92999 | Xylenes (total)           | ND            | ug/L  | 29-Sep-99       |               | 2               |
| ETI-R10-S-02-92999 | Xylenes (total)           | ND            | ug/L  | 29-Sep-99       |               | 2               |
| ETI-R10-S-03-92999 | Xylenes (total)           | ND            | ug/L  | 29-Sep-99       |               | 2               |
| ETI-R11-S-01-92999 | Xylenes (total)           | ND            | ug/L  | 29-Sep-99       |               | 1               |
| ETI-R11-S-02-92999 | Xylenes (total)           | ND            | ug/L  | 29-Sep-99       |               | 1               |
| ETI-R11-S-03-92999 | Xylenes (total)           | ND            | ug/L  | 29-Sep-99       |               | 1               |
| ETI-R12-S-01-92999 | Xylenes (total)           | ND            | ug/L  | 29-Sep-99       |               | 1               |
| ETI-R13-S-01-92999 | Xylenes (total)           | ND            | ug/L  | 29-Sep-99       |               | 1               |
| ETI-R14-S-01-92999 | Xylenes (total)           | ND            | ug/L  | 29-Sep-99       |               | 1               |
| ETI-R1E-S-01-92999 | Xylenes (total)           | ND            | ug/L  | 29-Sep-99       |               | 1               |
| ETI-R2E-S-01-92999 | Xylenes (total)           | ND            | ug/L  | 29-Sep-99       |               | 1               |

Appendix A  
Mound Plume Analytical Data

| Sample Number       | Compound                   | Sample Result | Units | Collection Date | Reporting Limit | Lab Qualifier |
|---------------------|----------------------------|---------------|-------|-----------------|-----------------|---------------|
| ETI-R10-S-01-102699 | Fluoride                   | 0.93          | mg/L  | 26-Oct-99       | 1               |               |
| ETI-R10-S-01-102699 | Sulfate                    | 132           | mg/L  | 26-Oct-99       | 10              |               |
| ETI-R10-S-01-102699 | Sulfate                    | 81.8          | mg/L  | 26-Oct-99       | 10              |               |
| ETI-R10-S-01-102699 | Aluminum                   | ND            | ug/L  | 26-Oct-99       | 100             |               |
| ETI-R10-S-01-102699 | Aluminum                   | 2000          | ug/L  | 26-Oct-99       | 100             |               |
| ETI-R10-S-01-102699 | Aluminum                   | 2130          | ug/L  | 26-Oct-99       | 100             |               |
| ETI-R10-S-01-102699 | Methylene chloride         | 0.74          | ug/L  | 26-Oct-99       | 12              | U             |
| ETI-R10-S-01-102699 | Phosphate as P, Ortho      | ND            | mg/L  | 26-Oct-99       | 0.5             |               |
| ETI-R10-S-01-102699 | Acetone                    | ND            | ug/L  | 26-Oct-99       | 25              | UJ            |
| ETI-R10-S-01-102699 | Calcium                    | 173000        | ug/L  | 26-Oct-99       | 200             |               |
| ETI-R10-S-01-102699 | Sodium                     | 134000        | ug/L  | 26-Oct-99       | 5000            |               |
| ETI-R10-S-01-102699 | 1,1,1-Trichloroethane      | 5.9           | ug/L  | 26-Oct-99       | 2               |               |
| ETI-R10-S-01-102699 | Chloroform                 | 16            | ug/L  | 26-Oct-99       | 1.2             |               |
| ETI-R10-S-01-102699 | Iron                       | 18.8          | ug/L  | 26-Oct-99       | 100             |               |
| ETI-R10-S-01-102699 | Styrene                    | ND            | ug/L  | 26-Oct-99       | 2.5             |               |
| ETI-R10-S-01-102699 | Iron                       | 1010          | ug/L  | 26-Oct-99       | 100             |               |
| ETI-R10-S-01-102699 | Iron                       | 1080          | ug/L  | 26-Oct-99       | 100             |               |
| ETI-R10-S-01-102699 | Chloride                   | 125           | mg/L  | 26-Oct-99       | 6               |               |
| ETI-R10-S-01-102699 | Chloride                   | 125           | mg/L  | 26-Oct-99       | 6               |               |
| ETI-R10-S-01-102699 | Chloride                   | 78.2          | mg/L  | 26-Oct-99       | 6               |               |
| ETI-R10-S-01-102699 | 1,1,2-Trichloroethane      | ND            | ug/L  | 26-Oct-99       | 2.5             |               |
| ETI-R10-S-01-102699 | Sodium                     | 132000        | ug/L  | 26-Oct-99       | 5000            |               |
| ETI-R10-S-01-102699 | Calcium                    | 170000        | ug/L  | 26-Oct-99       | 200             |               |
| ETI-R10-S-01-102699 | Chlorobenzene              | ND            | ug/L  | 26-Oct-99       | 2.5             |               |
| ETI-R10-S-01-102699 | Bromomethane               | ND            | ug/L  | 26-Oct-99       | 5               |               |
| ETI-R10-S-01-102699 | 1,2-Dichloroethane         | 0.79          | ug/L  | 26-Oct-99       | 2.5             |               |
| ETI-R10-S-01-102699 | Bromoform                  | ND            | ug/L  | 26-Oct-99       | 2.5             |               |
| ETI-R10-S-01-102699 | Carbon disulfide           | ND            | ug/L  | 26-Oct-99       | 2.5             |               |
| ETI-R10-S-01-102699 | Bromodichloromethane       | ND            | ug/L  | 26-Oct-99       | 2.5             |               |
| ETI-R10-S-01-102699 | Benzene                    | ND            | ug/L  | 26-Oct-99       | 2.5             |               |
| ETI-R10-S-01-102699 | 1,2-Dichloroethene (total) | 36            | ug/L  | 26-Oct-99       | 2.5             |               |
| ETI-R10-S-01-102699 | 1,1-Dichloroethene         | 8             | ug/L  | 26-Oct-99       | 2.5             |               |
| ETI-R10-S-01-102699 | Carbon tetrachloride       | 63            | ug/L  | 26-Oct-99       | 5.2             |               |
| ETI-R10-S-01-102699 | Sulfate                    | 132           | mg/L  | 26-Oct-99       | 10              |               |
| ETI-R10-S-01-102699 | Trichloroethene            | 100           | ug/L  | 26-Oct-99       | 2.5             |               |
| ETI-R10-S-01-102699 | Nitrate-Nitrite            | 1.9           | mg/L  | 26-Oct-99       | 0.1             |               |
| ETI-R10-S-01-102699 | TOTAL-URANIUM              | 14            | UG/L  | 26-Oct-99       |                 |               |
| ETI-R10-S-01-102699 | TOTAL-URANIUM              | 13.7          | UG/L  | 26-Oct-99       |                 | J             |
| ETI-R10-S-01-102699 | Total Alkalinity           | 410           | mg/L  | 26-Oct-99       | 5               |               |
| ETI-R10-S-01-102699 | Chloroethane               | ND            | ug/L  | 26-Oct-99       | 5               |               |
| ETI-R10-S-01-102699 | Vinyl chloride             | ND            | ug/L  | 26-Oct-99       | 2.8             |               |
| ETI-R10-S-01-102699 | Carbonate Alkalinity       | ND            | mg/L  | 26-Oct-99       | 5               |               |
| ETI-R10-S-01-102699 | Bicarbonate Alkalinity     | 410           | mg/L  | 26-Oct-99       | 5               |               |
| ETI-R10-S-01-102699 | 1,1-Dichloroethane         | 1.6           | ug/L  | 26-Oct-99       | 3               |               |
| ETI-R10-S-01-102699 | Xylenes (total)            | ND            | ug/L  | 26-Oct-99       | 2.5             |               |
| ETI-R10-S-01-102699 | Calcium                    | 122000        | ug/L  | 26-Oct-99       | 200             |               |
| ETI-R10-S-01-102699 | 4-Methyl-2-pentanone       | ND            | ug/L  | 26-Oct-99       | 12              |               |
| ETI-R10-S-01-102699 | Toluene                    | ND            | ug/L  | 26-Oct-99       | 2.5             |               |
| ETI-R10-S-01-102699 | cis-1,2-Dichloroethene     | 36            | ug/L  | 26-Oct-99       | 3               |               |
| ETI-R10-S-01-102699 | Tetrachloroethene          | 67            | ug/L  | 26-Oct-99       | 3.5             |               |
| ETI-R10-S-01-102699 | trans-1,2-Dichloroethene   | ND            | ug/L  | 26-Oct-99       | 1.2             |               |
| ETI-R10-S-01-102699 | 2-Hexanone                 | ND            | ug/L  | 26-Oct-99       | 12              |               |

Appendix A  
Mound Plume Analytical Data

| Sample Number       | Compound                   | Sample Result | Units | Collection Date | Reporting Limit | Lab Qualifier |
|---------------------|----------------------------|---------------|-------|-----------------|-----------------|---------------|
| ETI-R10-S-01-102699 | 1,2-Dichloropropane        | ND            | ug/L  | 26-Oct-99       | 2.5             |               |
| ETI-R10-S-01-102699 | trans-1,3-Dichloropropene  | ND            | ug/L  | 26-Oct-99       | 2.5             |               |
| ETI-R10-S-01-102699 | Dibromochloromethane       | ND            | ug/L  | 26-Oct-99       | 2.5             |               |
| ETI-R10-S-01-102699 | Ethylbenzene               | ND            | ug/L  | 26-Oct-99       | 2.5             |               |
| ETI-R10-S-01-102699 | cis-1,3-Dichloropropene    | ND            | ug/L  | 26-Oct-99       | 2.5             |               |
| ETI-R10-S-01-102699 | 1,1,2,2-Tetrachloroethane  | ND            | ug/L  | 26-Oct-99       | 2.5             |               |
| ETI-R10-S-01-102699 | 2-Butanone (MEK)           | ND            | ug/L  | 26-Oct-99       | 12 UJ           |               |
| ETI-R10-S-01-102699 | Manganese                  | 673           | ug/L  | 26-Oct-99       | 10              |               |
| ETI-R10-S-01-102699 | Chloromethane              | ND            | ug/L  | 26-Oct-99       | 5               |               |
| ETI-R10-S-01-102699 | Manganese                  | 640           | ug/L  | 26-Oct-99       | 10              |               |
| ETI-R10-S-01-102699 | Silica                     | 38300         | ug/L  | 26-Oct-99       | 500             |               |
| ETI-R10-S-01-102699 | Sodium                     | 83400         | ug/L  | 26-Oct-99       | 5000            |               |
| ETI-R10-S-01-102699 | Magnesium                  | 35900         | ug/L  | 26-Oct-99       | 200             |               |
| ETI-R10-S-01-102699 | Magnesium                  | 90100         | ug/L  | 26-Oct-99       | 200             |               |
| ETI-R10-S-01-102699 | Magnesium                  | 88000         | ug/L  | 26-Oct-99       | 200             |               |
| ETI-R10-S-01-102699 | Manganese                  | 131           | ug/L  | 26-Oct-99       | 10              |               |
| ETI-R10-S-01-102699 | Silica                     | 39200         | ug/L  | 26-Oct-99       | 500             |               |
| ETI-R10-S-01-102699 | Silica                     | 15500         | ug/L  | 26-Oct-99       | 500             |               |
| ETI-R10-S-01-102699 | Potassium                  | 1600          | ug/L  | 26-Oct-99       | 5000            |               |
| ETI-R10-S-01-102699 | Potassium                  | 51100         | ug/L  | 26-Oct-99       | 5000            |               |
| ETI-R10-S-01-102699 | Potassium                  | 52200         | ug/L  | 26-Oct-99       | 5000            |               |
| ETI-R10-S-02-102699 | 1,2-Dichloroethane         | 0.84          | ug/L  | 26-Oct-99       | 2               |               |
| ETI-R10-S-02-102699 | TOTAL-URANIUM              | 1.02          | %REC  |                 |                 |               |
| ETI-R10-S-02-102699 | Trichloroethene            | 99            | ug/L  | 26-Oct-99       | 2               |               |
| ETI-R10-S-02-102699 | Chlorobenzene              | ND            | ug/L  | 26-Oct-99       | 2               |               |
| ETI-R10-S-02-102699 | 1,1,1-Trichloroethane      | 5.4           | ug/L  | 26-Oct-99       | 1.6             |               |
| ETI-R10-S-02-102699 | 2-Hexanone                 | ND            | ug/L  | 26-Oct-99       | 10              |               |
| ETI-R10-S-02-102699 | 4-Methyl-2-pentanone       | ND            | ug/L  | 26-Oct-99       | 10              |               |
| ETI-R10-S-02-102699 | Acetone                    | ND            | ug/L  | 26-Oct-99       | 20 UJ           |               |
| ETI-R10-S-02-102699 | 1,1-Dichloroethene         | 7.3           | ug/L  | 26-Oct-99       | 2               |               |
| ETI-R10-S-02-102699 | Carbon tetrachloride       | 59            | ug/L  | 26-Oct-99       | 4.2             |               |
| ETI-R10-S-02-102699 | Bromoform                  | ND            | ug/L  | 26-Oct-99       | 2               |               |
| ETI-R10-S-02-102699 | Carbon disulfide           | ND            | ug/L  | 26-Oct-99       | 2               |               |
| ETI-R10-S-02-102699 | Chloromethane              | ND            | ug/L  | 26-Oct-99       | 4               |               |
| ETI-R10-S-02-102699 | trans-1,3-Dichloropropene  | ND            | ug/L  | 26-Oct-99       | 2               |               |
| ETI-R10-S-02-102699 | Benzene                    | ND            | ug/L  | 26-Oct-99       | 2               |               |
| ETI-R10-S-02-102699 | 2-Butanone (MEK)           | ND            | ug/L  | 26-Oct-99       | 10 UJ           |               |
| ETI-R10-S-02-102699 | Bromodichloromethane       | ND            | ug/L  | 26-Oct-99       | 2               |               |
| ETI-R10-S-02-102699 | cis-1,2-Dichloroethene     | 36            | ug/L  | 26-Oct-99       | 2.4             |               |
| ETI-R10-S-02-102699 | 1,2-Dichloroethene (total) | 36            | ug/L  | 26-Oct-99       | 2               |               |
| ETI-R10-S-02-102699 | Chloroform                 | 15            | ug/L  | 26-Oct-99       | 1               |               |
| ETI-R10-S-02-102699 | Tetrachloroethene          | 61            | ug/L  | 26-Oct-99       | 2.8             |               |
| ETI-R10-S-02-102699 | Styrene                    | ND            | ug/L  | 26-Oct-99       | 2               |               |
| ETI-R10-S-02-102699 | 1,1,2-Trichloroethane      | ND            | ug/L  | 26-Oct-99       | 2               |               |
| ETI-R10-S-02-102699 | Bromomethane               | ND            | ug/L  | 26-Oct-99       | 4               |               |
| ETI-R10-S-02-102699 | 1,1,2,2-Tetrachloroethane  | ND            | ug/L  | 26-Oct-99       | 2               |               |
| ETI-R10-S-02-102699 | Toluene                    | 0.2           | ug/L  | 26-Oct-99       | 2               |               |
| ETI-R10-S-02-102699 | Dibromochloromethane       | ND            | ug/L  | 26-Oct-99       | 2               |               |
| ETI-R10-S-02-102699 | Chloroethane               | ND            | ug/L  | 26-Oct-99       | 4               |               |
| ETI-R10-S-02-102699 | Xylenes (total)            | ND            | ug/L  | 26-Oct-99       | 2               |               |
| ETI-R10-S-02-102699 | 1,2-Dichloropropane        | ND            | ug/L  | 26-Oct-99       | 2               |               |
| ETI-R10-S-02-102699 | 1,1-Dichloroethane         | 1.5           | ug/L  | 26-Oct-99       | 2.4             |               |

Appendix A  
Mound Plume Analytical Data

| Sample Number       | Compound                   | Sample Result | Units | Collection Date | Reporting Limit | Lab Qualifier |
|---------------------|----------------------------|---------------|-------|-----------------|-----------------|---------------|
| ETI-R10-S-02-102699 | trans-1,2-Dichloroethene   | ND            | ug/L  | 26-Oct-99       | 1               | J             |
| ETI-R10-S-02-102699 | TOTAL-URANIUM              | 14.1          | UG/L  | 26-Oct-99       |                 |               |
| ETI-R10-S-02-102699 | Vinyl chloride             | ND            | ug/L  | 26-Oct-99       | 2.2             |               |
| ETI-R10-S-02-102699 | Methylene chloride         | 0.56          | ug/L  | 26-Oct-99       | 10 U            |               |
| ETI-R10-S-02-102699 | cis-1,3-Dichloropropene    | ND            | ug/L  | 26-Oct-99       | 2               |               |
| ETI-R10-S-02-102699 | Ethylbenzene               | ND            | ug/L  | 26-Oct-99       | 2               |               |
| ETI-R10-S-03-102699 | Trichloroethene            | 99            | ug/L  | 26-Oct-99       | 2               |               |
| ETI-R10-S-03-102699 | Chloromethane              | ND            | ug/L  | 26-Oct-99       | 4               |               |
| ETI-R10-S-03-102699 | Bromoform                  | ND            | ug/L  | 26-Oct-99       | 2               |               |
| ETI-R10-S-03-102699 | cis-1,2-Dichloroethene     | 37            | ug/L  | 26-Oct-99       | 2.4             |               |
| ETI-R10-S-03-102699 | 1,2-Dichloropropane        | ND            | ug/L  | 26-Oct-99       | 2               |               |
| ETI-R10-S-03-102699 | 1,2-Dichloroethane         | 0.84          | ug/L  | 26-Oct-99       | 2               |               |
| ETI-R10-S-03-102699 | Bromodichloromethane       | ND            | ug/L  | 26-Oct-99       | 2               |               |
| ETI-R10-S-03-102699 | 2-Hexanone                 | ND            | ug/L  | 26-Oct-99       | 10              |               |
| ETI-R10-S-03-102699 | Benzene                    | ND            | ug/L  | 26-Oct-99       | 2               |               |
| ETI-R10-S-03-102699 | Xylenes (total)            | ND            | ug/L  | 26-Oct-99       | 2               |               |
| ETI-R10-S-03-102699 | 2-Butanone (MEK)           | ND            | ug/L  | 26-Oct-99       | 10 UJ           |               |
| ETI-R10-S-03-102699 | Vinyl chloride             | ND            | ug/L  | 26-Oct-99       | 2.2             |               |
| ETI-R10-S-03-102699 | TOTAL-URANIUM              | 14.2          | UG/L  | 26-Oct-99       |                 | J             |
| ETI-R10-S-03-102699 | 4-Methyl-2-pentanone       | ND            | ug/L  | 26-Oct-99       | 10              |               |
| ETI-R10-S-03-102699 | cis-1,3-Dichloropropene    | ND            | ug/L  | 26-Oct-99       | 2               |               |
| ETI-R10-S-03-102699 | 1,2-Dichloroethene (total) | 37            | ug/L  | 26-Oct-99       | 2               |               |
| ETI-R10-S-03-102699 | Acetone                    | ND            | ug/L  | 26-Oct-99       | 20 UJ           |               |
| ETI-R10-S-03-102699 | Dibromochloromethane       | ND            | ug/L  | 26-Oct-99       | 2               |               |
| ETI-R10-S-03-102699 | Tetrachloroethene          | 62            | ug/L  | 26-Oct-99       | 2.8             |               |
| ETI-R10-S-03-102699 | Chloroform                 | 16            | ug/L  | 26-Oct-99       | 1               |               |
| ETI-R10-S-03-102699 | Carbon disulfide           | ND            | ug/L  | 26-Oct-99       | 2               |               |
| ETI-R10-S-03-102699 | 1,1,2-Trichloroethane      | ND            | ug/L  | 26-Oct-99       | 2               |               |
| ETI-R10-S-03-102699 | 1,1-Dichloroethene         | 7.3           | ug/L  | 26-Oct-99       | 2               |               |
| ETI-R10-S-03-102699 | Methylene chloride         | 0.6           | ug/L  | 26-Oct-99       | 10 U            |               |
| ETI-R10-S-03-102699 | Ethylbenzene               | ND            | ug/L  | 26-Oct-99       | 2               |               |
| ETI-R10-S-03-102699 | Chloroethane               | ND            | ug/L  | 26-Oct-99       | 4               |               |
| ETI-R10-S-03-102699 | Styrene                    | ND            | ug/L  | 26-Oct-99       | 2               |               |
| ETI-R10-S-03-102699 | 1,1-Dichloroethane         | 1.5           | ug/L  | 26-Oct-99       | 2.4             |               |
| ETI-R10-S-03-102699 | trans-1,2-Dichloroethene   | ND            | ug/L  | 26-Oct-99       | 1               |               |
| ETI-R10-S-03-102699 | Carbon tetrachloride       | 59            | ug/L  | 26-Oct-99       | 4.2             |               |
| ETI-R10-S-03-102699 | Toluene                    | ND            | ug/L  | 26-Oct-99       | 2               |               |
| ETI-R10-S-03-102699 | 1,1,1-Trichloroethane      | 5.4           | ug/L  | 26-Oct-99       | 1.6             |               |
| ETI-R10-S-03-102699 | Bromomethane               | ND            | ug/L  | 26-Oct-99       | 4               |               |
| ETI-R10-S-03-102699 | 1,1,2,2-Tetrachloroethane  | ND            | ug/L  | 26-Oct-99       | 2               |               |
| ETI-R10-S-03-102699 | trans-1,3-Dichloropropene  | ND            | ug/L  | 26-Oct-99       | 2               |               |
| ETI-R10-S-03-102699 | Chlorobenzene              | ND            | ug/L  | 26-Oct-99       | 2               |               |
| ETI-R11-S-01-102699 | Ethylbenzene               | ND            | ug/L  | 26-Oct-99       | 1               |               |
| ETI-R11-S-01-102699 | Nitrate-Nitrite            | ND            | mg/L  | 26-Oct-99       | 0.1             |               |
| ETI-R11-S-01-102699 | trans-1,2-Dichloroethene   | ND            | ug/L  | 26-Oct-99       | 0.5             |               |
| ETI-R11-S-01-102699 | Xylenes (total)            | ND            | ug/L  | 26-Oct-99       | 1               |               |
| ETI-R11-S-01-102699 | Bicarbonate Alkalinity     | 291           | mg/L  | 26-Oct-99       | 5               |               |
| ETI-R11-S-01-102699 | Aluminum                   | ND            | ug/L  | 26-Oct-99       | 100             |               |
| ETI-R11-S-01-102699 | Vinyl chloride             | 0.35          | ug/L  | 26-Oct-99       | 1.1             |               |
| ETI-R11-S-01-102699 | Carbonate Alkalinity       | ND            | mg/L  | 26-Oct-99       | 5               |               |
| ETI-R11-S-01-102699 | cis-1,2-Dichloroethene     | 29            | ug/L  | 26-Oct-99       | 1.2             |               |
| ETI-R11-S-01-102699 | Total Alkalinity           | 291           | mg/L  | 26-Oct-99       | 5               |               |

Appendix A  
Mound Plume Analytical Data

| Sample Number       | Compound                   | Sample Result | Units | Collection Date | Reporting Limit | Lab Qualifier |
|---------------------|----------------------------|---------------|-------|-----------------|-----------------|---------------|
| ETI-R11-S-01-102699 | 1,1-Dichloroethane         | 2             | ug/L  | 26-Oct-99       | 1.2             |               |
| ETI-R11-S-01-102699 | 2-Hexanone                 | ND            | ug/L  | 26-Oct-99       | 5               |               |
| ETI-R11-S-01-102699 | TOTAL-URANIUM              | 0.046         | UG/L  | 26-Oct-99       |                 | UJ            |
| ETI-R11-S-01-102699 | 1,2-Dichloropropane        | ND            | ug/L  | 26-Oct-99       | 1               |               |
| ETI-R11-S-01-102699 | Toluene                    | 0.18          | ug/L  | 26-Oct-99       | 1               |               |
| ETI-R11-S-01-102699 | Potassium                  | 1690          | ug/L  | 26-Oct-99       | 5000            |               |
| ETI-R11-S-01-102699 | 1,1,2,2-Tetrachloroethane  | ND            | ug/L  | 26-Oct-99       | 1               |               |
| ETI-R11-S-01-102699 | Magnesium                  | 32900         | ug/L  | 26-Oct-99       | 200             |               |
| ETI-R11-S-01-102699 | Chloroform                 | 0.41          | ug/L  | 26-Oct-99       | 0.5             |               |
| ETI-R11-S-01-102699 | Silica                     | 10400         | ug/L  | 26-Oct-99       | 500             |               |
| ETI-R11-S-01-102699 | Manganese                  | 140           | ug/L  | 26-Oct-99       | 10              |               |
| ETI-R11-S-01-102699 | Tetrachloroethene          | 35            | ug/L  | 26-Oct-99       | 1.4             |               |
| ETI-R11-S-01-102699 | Sodium                     | 82100         | ug/L  | 26-Oct-99       | 5000            |               |
| ETI-R11-S-01-102699 | Iron                       | 12000         | ug/L  | 26-Oct-99       | 100             |               |
| ETI-R11-S-01-102699 | cis-1,3-Dichloropropene    | ND            | ug/L  | 26-Oct-99       | 1               |               |
| ETI-R11-S-01-102699 | Chloride                   | 77            | mg/L  | 26-Oct-99       | 6               |               |
| ETI-R11-S-01-102699 | Sulfate                    | 40.9          | mg/L  | 26-Oct-99       | 5               |               |
| ETI-R11-S-01-102699 | Styrene                    | ND            | ug/L  | 26-Oct-99       | 1               |               |
| ETI-R11-S-01-102699 | 1,1,2-Trichloroethane      | ND            | ug/L  | 26-Oct-99       | 1               |               |
| ETI-R11-S-01-102699 | Fluoride                   | 0.71          | mg/L  | 26-Oct-99       | 1               |               |
| ETI-R11-S-01-102699 | Calcium                    | 61800         | ug/L  | 26-Oct-99       | 200             |               |
| ETI-R11-S-01-102699 | Methylene chloride         | 0.29          | ug/L  | 26-Oct-99       | 5               | U             |
| ETI-R11-S-01-102699 | Phosphate as P, Ortho      | 0.26          | mg/L  | 26-Oct-99       | 0.5             |               |
| ETI-R11-S-01-102699 | Chloroethane               | ND            | ug/L  | 26-Oct-99       | 2               |               |
| ETI-R11-S-01-102699 | 1,2-Dichloroethene (total) | 29            | ug/L  | 26-Oct-99       | 1               |               |
| ETI-R11-S-01-102699 | Trichloroethene            | 37            | ug/L  | 26-Oct-99       | 1               |               |
| ETI-R11-S-01-102699 | Dibromochloromethane       | ND            | ug/L  | 26-Oct-99       | 1               |               |
| ETI-R11-S-01-102699 | Chlorobenzene              | ND            | ug/L  | 26-Oct-99       | 1               |               |
| ETI-R11-S-01-102699 | Carbon tetrachloride       | ND            | ug/L  | 26-Oct-99       | 2.1             |               |
| ETI-R11-S-01-102699 | Acetone                    | ND            | ug/L  | 26-Oct-99       | 10              | UJ            |
| ETI-R11-S-01-102699 | Bromodichloromethane       | ND            | ug/L  | 26-Oct-99       | 1               |               |
| ETI-R11-S-01-102699 | 1,1-Dichloroethene         | 5             | ug/L  | 26-Oct-99       | 1               |               |
| ETI-R11-S-01-102699 | 4-Methyl-2-pentanone       | ND            | ug/L  | 26-Oct-99       | 5               |               |
| ETI-R11-S-01-102699 | 2-Butanone (MEK)           | ND            | ug/L  | 26-Oct-99       | 5               | UJ            |
| ETI-R11-S-01-102699 | Bromoform                  | ND            | ug/L  | 26-Oct-99       | 1               |               |
| ETI-R11-S-01-102699 | 1,2-Dichloroethane         | 0.72          | ug/L  | 26-Oct-99       | 1               |               |
| ETI-R11-S-01-102699 | Benzene                    | 0.14          | ug/L  | 26-Oct-99       | 1               | U             |
| ETI-R11-S-01-102699 | Chloromethane              | ND            | ug/L  | 26-Oct-99       | 2               |               |
| ETI-R11-S-01-102699 | 1,1,1-Trichloroethane      | 1.1           | ug/L  | 26-Oct-99       | 0.8             |               |
| ETI-R11-S-01-102699 | Bromomethane               | ND            | ug/L  | 26-Oct-99       | 2               |               |
| ETI-R11-S-01-102699 | Carbon disulfide           | ND            | ug/L  | 26-Oct-99       | 1               |               |
| ETI-R11-S-01-102699 | trans-1,3-Dichloropropene  | ND            | ug/L  | 26-Oct-99       | 1               |               |
| ETI-R11-S-02-102699 | Styrene                    | ND            | ug/L  | 26-Oct-99       | 1               |               |
| ETI-R11-S-02-102699 | Carbon tetrachloride       | ND            | ug/L  | 26-Oct-99       | 2.1             |               |
| ETI-R11-S-02-102699 | Methylene chloride         | 0.47          | ug/L  | 26-Oct-99       | 5               | U             |
| ETI-R11-S-02-102699 | trans-1,3-Dichloropropene  | ND            | ug/L  | 26-Oct-99       | 1               |               |
| ETI-R11-S-02-102699 | Acetone                    | ND            | ug/L  | 26-Oct-99       | 10              | UJ            |
| ETI-R11-S-02-102699 | Xylenes (total)            | ND            | ug/L  | 26-Oct-99       | 1               |               |
| ETI-R11-S-02-102699 | Bromodichloromethane       | ND            | ug/L  | 26-Oct-99       | 1               |               |
| ETI-R11-S-02-102699 | Toluene                    | 0.18          | ug/L  | 26-Oct-99       | 1               |               |
| ETI-R11-S-02-102699 | 1,2-Dichloroethane         | 0.73          | ug/L  | 26-Oct-99       | 1               |               |
| ETI-R11-S-02-102699 | 1,1,2-Trichloroethane      | ND            | ug/L  | 26-Oct-99       | 1               |               |

Appendix A  
Mound Plume Analytical Data

| Sample Number       | Compound                   | Sample Result | Units | Collection Date | Reporting Limit | Lab Qualifier |
|---------------------|----------------------------|---------------|-------|-----------------|-----------------|---------------|
| ETI-R11-S-02-102699 | Ethylbenzene               | ND            | ug/L  | 26-Oct-99       | 1               |               |
| ETI-R11-S-02-102699 | 1,2-Dichloropropane        | ND            | ug/L  | 26-Oct-99       | 1               |               |
| ETI-R11-S-02-102699 | cis-1,3-Dichloropropene    | ND            | ug/L  | 26-Oct-99       | 1               |               |
| ETI-R11-S-02-102699 | Benzene                    | 0.14          | ug/L  | 26-Oct-99       | 1 U             |               |
| ETI-R11-S-02-102699 | Chloroethane               | ND            | ug/L  | 26-Oct-99       | 2               |               |
| ETI-R11-S-02-102699 | 2-Butanone (MEK)           | ND            | ug/L  | 26-Oct-99       | 5 UJ            |               |
| ETI-R11-S-02-102699 | 4-Methyl-2-pentanone       | ND            | ug/L  | 26-Oct-99       | 5               |               |
| ETI-R11-S-02-102699 | Chlorobenzene              | ND            | ug/L  | 26-Oct-99       | 1               |               |
| ETI-R11-S-02-102699 | Trichloroethene            | 35            | ug/L  | 26-Oct-99       | 1               |               |
| ETI-R11-S-02-102699 | 1,1,1-Trichloroethane      | 1.1           | ug/L  | 26-Oct-99       | 0.8             |               |
| ETI-R11-S-02-102699 | 1,1,2,2-Tetrachloroethane  | ND            | ug/L  | 26-Oct-99       | 1               |               |
| ETI-R11-S-02-102699 | TOTAL-URANIUM              | 0.005         | UG/L  | 26-Oct-99       | UJ              |               |
| ETI-R11-S-02-102699 | Chloromethane              | ND            | ug/L  | 26-Oct-99       | 2               |               |
| ETI-R11-S-02-102699 | 1,1-Dichloroethane         | 2             | ug/L  | 26-Oct-99       | 1.2             |               |
| ETI-R11-S-02-102699 | Chloroform                 | 0.4           | ug/L  | 26-Oct-99       | 0.5             |               |
| ETI-R11-S-02-102699 | 2-Hexanone                 | ND            | ug/L  | 26-Oct-99       | 5               |               |
| ETI-R11-S-02-102699 | Bromoform                  | ND            | ug/L  | 26-Oct-99       | 1               |               |
| ETI-R11-S-02-102699 | Bromomethane               | ND            | ug/L  | 26-Oct-99       | 2               |               |
| ETI-R11-S-02-102699 | 1,1-Dichloroethene         | 4.8           | ug/L  | 26-Oct-99       | 1               |               |
| ETI-R11-S-02-102699 | 1,2-Dichloroethene (total) | 29            | ug/L  | 26-Oct-99       | 1               |               |
| ETI-R11-S-02-102699 | Carbon disulfide           | ND            | ug/L  | 26-Oct-99       | 1               |               |
| ETI-R11-S-02-102699 | cis-1,2-Dichloroethene     | 29            | ug/L  | 26-Oct-99       | 1.2             |               |
| ETI-R11-S-02-102699 | trans-1,2-Dichloroethene   | ND            | ug/L  | 26-Oct-99       | 0.5             |               |
| ETI-R11-S-02-102699 | Vinyl chloride             | 0.33          | ug/L  | 26-Oct-99       | 1.1             |               |
| ETI-R11-S-02-102699 | Tetrachloroethene          | 33            | ug/L  | 26-Oct-99       | 1.4             |               |
| ETI-R11-S-02-102699 | Dibromochloromethane       | ND            | ug/L  | 26-Oct-99       | 1               |               |
| ETI-R11-S-03-102699 | Bromoform                  | ND            | ug/L  | 26-Oct-99       | 1               |               |
| ETI-R11-S-03-102699 | Bromodichloromethane       | ND            | ug/L  | 26-Oct-99       | 1               |               |
| ETI-R11-S-03-102699 | Dibromochloromethane       | ND            | ug/L  | 26-Oct-99       | 1               |               |
| ETI-R11-S-03-102699 | Tetrachloroethene          | 32            | ug/L  | 26-Oct-99       | 1.4             |               |
| ETI-R11-S-03-102699 | 1,1-Dichloroethene         | 4.8           | ug/L  | 26-Oct-99       | 1               |               |
| ETI-R11-S-03-102699 | Styrene                    | ND            | ug/L  | 26-Oct-99       | 1               |               |
| ETI-R11-S-03-102699 | Toluene                    | 0.22          | ug/L  | 26-Oct-99       | 1               |               |
| ETI-R11-S-03-102699 | trans-1,3-Dichloropropene  | ND            | ug/L  | 26-Oct-99       | 1               |               |
| ETI-R11-S-03-102699 | Bromomethane               | ND            | ug/L  | 26-Oct-99       | 2               |               |
| ETI-R11-S-03-102699 | Chloroform                 | 0.4           | ug/L  | 26-Oct-99       | 0.5             |               |
| ETI-R11-S-03-102699 | 1,2-Dichloroethane         | 0.74          | ug/L  | 26-Oct-99       | 1               |               |
| ETI-R11-S-03-102699 | 1,1-Dichloroethane         | 2             | ug/L  | 26-Oct-99       | 1.2             |               |
| ETI-R11-S-03-102699 | 2-Hexanone                 | ND            | ug/L  | 26-Oct-99       | 5               |               |
| ETI-R11-S-03-102699 | 1,1,2-Trichloroethane      | ND            | ug/L  | 26-Oct-99       | 1               |               |
| ETI-R11-S-03-102699 | 4-Methyl-2-pentanone       | ND            | ug/L  | 26-Oct-99       | 5               |               |
| ETI-R11-S-03-102699 | 1,1,2,2-Tetrachloroethane  | ND            | ug/L  | 26-Oct-99       | 1               |               |
| ETI-R11-S-03-102699 | Trichloroethene            | 35            | ug/L  | 26-Oct-99       | 1               |               |
| ETI-R11-S-03-102699 | 1,2-Dichloropropane        | ND            | ug/L  | 26-Oct-99       | 1               |               |
| ETI-R11-S-03-102699 | Carbon disulfide           | ND            | ug/L  | 26-Oct-99       | 1               |               |
| ETI-R11-S-03-102699 | 1,2-Dichloroethene (total) | 28            | ug/L  | 26-Oct-99       | 1               |               |
| ETI-R11-S-03-102699 | Methylene chloride         | 0.35          | ug/L  | 26-Oct-99       | 5 U             |               |
| ETI-R11-S-03-102699 | Chloroethane               | ND            | ug/L  | 26-Oct-99       | 2               |               |
| ETI-R11-S-03-102699 | Vinyl chloride             | 0.32          | ug/L  | 26-Oct-99       | 1.1             |               |
| ETI-R11-S-03-102699 | trans-1,2-Dichloroethene   | ND            | ug/L  | 26-Oct-99       | 0.5             |               |
| ETI-R11-S-03-102699 | cis-1,2-Dichloroethene     | 28            | ug/L  | 26-Oct-99       | 1.2             |               |
| ETI-R11-S-03-102699 | Carbon tetrachloride       | ND            | ug/L  | 26-Oct-99       | 2.1             |               |

Appendix A  
Mound Plume Analytical Data

| Sample Number       | Compound                   | Sample Result | Units | Collection Date | Reporting Limit | Lab Qualifier |
|---------------------|----------------------------|---------------|-------|-----------------|-----------------|---------------|
| ETI-R11-S-03-102699 | 2-Butanone (MEK)           | ND            | ug/L  | 26-Oct-99       | 5               | UJ            |
| ETI-R11-S-03-102699 | Acetone                    | ND            | ug/L  | 26-Oct-99       | 10              | UJ            |
| ETI-R11-S-03-102699 | Xylenes (total)            | ND            | ug/L  | 26-Oct-99       | 1               |               |
| ETI-R11-S-03-102699 | 1,1,1-Trichloroethane      | 1.1           | ug/L  | 26-Oct-99       | 0.8             |               |
| ETI-R11-S-03-102699 | TOTAL-URANIUM              | 0.006         | UG/L  | 26-Oct-99       |                 | UJ            |
| ETI-R11-S-03-102699 | Ethylbenzene               | ND            | ug/L  | 26-Oct-99       | 1               |               |
| ETI-R11-S-03-102699 | cis-1,3-Dichloropropene    | ND            | ug/L  | 26-Oct-99       | 1               |               |
| ETI-R11-S-03-102699 | Benzene                    | 0.14          | ug/L  | 26-Oct-99       | 1               | U             |
| ETI-R11-S-03-102699 | Chlorobenzene              | ND            | ug/L  | 26-Oct-99       | 1               |               |
| ETI-R11-S-03-102699 | Chloromethane              | ND            | ug/L  | 26-Oct-99       | 2               |               |
| ETI-R12-S-01-102699 | Dibromochloromethane       | ND            | ug/L  | 26-Oct-99       | 1               |               |
| ETI-R12-S-01-102699 | Chloromethane              | ND            | ug/L  | 26-Oct-99       | 2               |               |
| ETI-R12-S-01-102699 | trans-1,2-Dichloroethene   | ND            | ug/L  | 26-Oct-99       | 0.5             |               |
| ETI-R12-S-01-102699 | 1,2-Dichloropropane        | ND            | ug/L  | 26-Oct-99       | 1               |               |
| ETI-R12-S-01-102699 | trans-1,3-Dichloropropene  | ND            | ug/L  | 26-Oct-99       | 1               |               |
| ETI-R12-S-01-102699 | Manganese                  | 48            | ug/L  | 26-Oct-99       | 10              |               |
| ETI-R12-S-01-102699 | 2-Butanone (MEK)           | ND            | ug/L  | 26-Oct-99       | 5               | UJ            |
| ETI-R12-S-01-102699 | cis-1,2-Dichloroethene     | 15            | ug/L  | 26-Oct-99       | 1.2             |               |
| ETI-R12-S-01-102699 | 1,1,1-Trichloroethane      | ND            | ug/L  | 26-Oct-99       | 0.8             |               |
| ETI-R12-S-01-102699 | cis-1,3-Dichloropropene    | ND            | ug/L  | 26-Oct-99       | 1               |               |
| ETI-R12-S-01-102699 | Toluene                    | 0.21          | ug/L  | 26-Oct-99       | 1               |               |
| ETI-R12-S-01-102699 | 1,2-Dichloroethene (total) | 15            | ug/L  | 26-Oct-99       | 1               |               |
| ETI-R12-S-01-102699 | Carbon tetrachloride       | ND            | ug/L  | 26-Oct-99       | 2.1             |               |
| ETI-R12-S-01-102699 | Chloroethane               | ND            | ug/L  | 26-Oct-99       | 2               |               |
| ETI-R12-S-01-102699 | 1,1,2-Trichloroethane      | ND            | ug/L  | 26-Oct-99       | 1               |               |
| ETI-R12-S-01-102699 | Bicarbonate Alkalinity     | 135           | mg/L  | 26-Oct-99       | 5               |               |
| ETI-R12-S-01-102699 | Carbonate Alkalinity       | 34.3          | mg/L  | 26-Oct-99       | 5               |               |
| ETI-R12-S-01-102699 | Total Alkalinity           | 169           | mg/L  | 26-Oct-99       | 5               |               |
| ETI-R12-S-01-102699 | Total Alkalinity           | 296           | mg/L  | 26-Oct-99       | 5               |               |
| ETI-R12-S-01-102699 | Total Alkalinity           | 298           | mg/L  | 26-Oct-99       | 5               |               |
| ETI-R12-S-01-102699 | Trichloroethene            | 5.4           | ug/L  | 26-Oct-99       | 1               |               |
| ETI-R12-S-01-102699 | Chlorobenzene              | ND            | ug/L  | 26-Oct-99       | 1               |               |
| ETI-R12-S-01-102699 | TOTAL-URANIUM              | 0.004         | UG/L  | 26-Oct-99       |                 | UJ            |
| ETI-R12-S-01-102699 | Chloroform                 | 0.17          | ug/L  | 26-Oct-99       | 0.5             |               |
| ETI-R12-S-01-102699 | 1,1-Dichloroethane         | 1.8           | ug/L  | 26-Oct-99       | 1.2             |               |
| ETI-R12-S-01-102699 | Vinyl chloride             | 0.27          | ug/L  | 26-Oct-99       | 1.1             |               |
| ETI-R12-S-01-102699 | 4-Methyl-2-pentanone       | ND            | ug/L  | 26-Oct-99       | 5               |               |
| ETI-R12-S-01-102699 | Fluoride                   | 0.59          | mg/L  | 26-Oct-99       | 1               |               |
| ETI-R12-S-01-102699 | Acetone                    | ND            | ug/L  | 26-Oct-99       | 10              | UJ            |
| ETI-R12-S-01-102699 | Carbon disulfide           | ND            | ug/L  | 26-Oct-99       | 1               |               |
| ETI-R12-S-01-102699 | Benzene                    | 0.19          | ug/L  | 26-Oct-99       | 1               | U             |
| ETI-R12-S-01-102699 | 1,2-Dichloroethane         | 0.62          | ug/L  | 26-Oct-99       | 1               |               |
| ETI-R12-S-01-102699 | Bromodichloromethane       | ND            | ug/L  | 26-Oct-99       | 1               |               |
| ETI-R12-S-01-102699 | Bromomethane               | ND            | ug/L  | 26-Oct-99       | 2               |               |
| ETI-R12-S-01-102699 | Bromoform                  | ND            | ug/L  | 26-Oct-99       | 1               |               |
| ETI-R12-S-01-102699 | 1,1-Dichloroethene         | 2             | ug/L  | 26-Oct-99       | 1               |               |
| ETI-R12-S-01-102699 | 2-Hexanone                 | ND            | ug/L  | 26-Oct-99       | 5               |               |
| ETI-R12-S-01-102699 | Chloride                   | 72.6          | mg/L  | 26-Oct-99       | 6               |               |
| ETI-R12-S-01-102699 | Potassium                  | 1270          | ug/L  | 26-Oct-99       | 5000            |               |
| ETI-R12-S-01-102699 | Magnesium                  | 25500         | ug/L  | 26-Oct-99       | 200             |               |
| ETI-R12-S-01-102699 | Tetrachloroethene          | 6.6           | ug/L  | 26-Oct-99       | 1.4             |               |
| ETI-R12-S-01-102699 | Silica                     | 1670          | ug/L  | 26-Oct-99       | 500             |               |

**Appendix A**  
**Mound Plume Analytical Data**

| Sample Number       | Compound                   | Sample Result | Units | Collection Date | Reporting Limit | Lab Qualifier |
|---------------------|----------------------------|---------------|-------|-----------------|-----------------|---------------|
| ETI-R12-S-01-102699 | 1,1,2,2-Tetrachloroethane  | ND            | ug/L  | 26-Oct-99       | 1               |               |
| ETI-R12-S-01-102699 | Sodium                     | 76800         | ug/L  | 26-Oct-99       | 5000            |               |
| ETI-R12-S-01-102699 | Iron                       | 295           | ug/L  | 26-Oct-99       | 100             |               |
| ETI-R12-S-01-102699 | Styrene                    | ND            | ug/L  | 26-Oct-99       | 1               |               |
| ETI-R12-S-01-102699 | Nitrate-Nitrite            | ND            | mg/L  | 26-Oct-99       | 0.1             |               |
| ETI-R12-S-01-102699 | Calcium                    | 5710          | ug/L  | 26-Oct-99       | 200             |               |
| ETI-R12-S-01-102699 | Aluminum                   | ND            | ug/L  | 26-Oct-99       | 100             |               |
| ETI-R12-S-01-102699 | Xylenes (total)            | ND            | ug/L  | 26-Oct-99       | 1               |               |
| ETI-R12-S-01-102699 | Sulfate                    | 1.3           | mg/L  | 26-Oct-99       | 5               |               |
| ETI-R12-S-01-102699 | Ethylbenzene               | ND            | ug/L  | 26-Oct-99       | 1               |               |
| ETI-R12-S-01-102699 | Phosphate as P, Ortho      | ND            | mg/L  | 26-Oct-99       | 0.5             |               |
| ETI-R12-S-01-102699 | Methylene chloride         | 0.51          | ug/L  | 26-Oct-99       | 5               | U             |
| ETI-R13-S-01-102699 | 1,1,2-Trichloroethane      | ND            | ug/L  | 26-Oct-99       | 1               |               |
| ETI-R13-S-01-102699 | 1,1-Dichloroethene         | 1.7           | ug/L  | 26-Oct-99       | 1               |               |
| ETI-R13-S-01-102699 | Magnesium                  | 21200         | ug/L  | 26-Oct-99       | 200             |               |
| ETI-R13-S-01-102699 | Xylenes (total)            | ND            | ug/L  | 26-Oct-99       | 1               |               |
| ETI-R13-S-01-102699 | 1,1,2,2-Tetrachloroethane  | ND            | ug/L  | 26-Oct-99       | 1               |               |
| ETI-R13-S-01-102699 | 1,1-Dichloroethane         | 1.7           | ug/L  | 26-Oct-99       | 1.2             |               |
| ETI-R13-S-01-102699 | Iron                       | 113           | ug/L  | 26-Oct-99       | 100             |               |
| ETI-R13-S-01-102699 | 1,2-Dichloropropane        | ND            | ug/L  | 26-Oct-99       | 1               |               |
| ETI-R13-S-01-102699 | Vinyl chloride             | 0.25          | ug/L  | 26-Oct-99       | 1.1             |               |
| ETI-R13-S-01-102699 | Aluminum                   | ND            | ug/L  | 26-Oct-99       | 100             |               |
| ETI-R13-S-01-102699 | 1,1,1-Trichloroethane      | ND            | ug/L  | 26-Oct-99       | 0.8             |               |
| ETI-R13-S-01-102699 | Calcium                    | 4140          | ug/L  | 26-Oct-99       | 200             |               |
| ETI-R13-S-01-102699 | Trichloroethene            | 3.2           | ug/L  | 26-Oct-99       | 1               |               |
| ETI-R13-S-01-102699 | 1,2-Dichloroethene (total) | 13            | ug/L  | 26-Oct-99       | 1               |               |
| ETI-R13-S-01-102699 | 1,2-Dichloroethane         | 0.6           | ug/L  | 26-Oct-99       | 1               |               |
| ETI-R13-S-01-102699 | Bicarbonate Alkalinity     | 111           | mg/L  | 26-Oct-99       | 5               |               |
| ETI-R13-S-01-102699 | Sodium                     | 73900         | ug/L  | 26-Oct-99       | 5000            |               |
| ETI-R13-S-01-102699 | Sulfate                    | 0.8           | mg/L  | 26-Oct-99       | 5               |               |
| ETI-R13-S-01-102699 | Benzene                    | 0.21          | ug/L  | 26-Oct-99       | 1               | U             |
| ETI-R13-S-01-102699 | Chloroethane               | ND            | ug/L  | 26-Oct-99       | 2               |               |
| ETI-R13-S-01-102699 | Silica                     | 682           | ug/L  | 26-Oct-99       | 500             |               |
| ETI-R13-S-01-102699 | 2-Hexanone                 | ND            | ug/L  | 26-Oct-99       | 5               |               |
| ETI-R13-S-01-102699 | Chlorobenzene              | ND            | ug/L  | 26-Oct-99       | 1               |               |
| ETI-R13-S-01-102699 | Carbon tetrachloride       | ND            | ug/L  | 26-Oct-99       | 2.1             |               |
| ETI-R13-S-01-102699 | TOTAL-URANIUM              | 0.001         | UG/L  | 26-Oct-99       |                 | UJ            |
| ETI-R13-S-01-102699 | 4-Methyl-2-pentanone       | ND            | ug/L  | 26-Oct-99       | 5               |               |
| ETI-R13-S-01-102699 | Ethylbenzene               | ND            | ug/L  | 26-Oct-99       | 1               |               |
| ETI-R13-S-01-102699 | Chloride                   | 70.1          | mg/L  | 26-Oct-99       | 6               |               |
| ETI-R13-S-01-102699 | Carbon disulfide           | ND            | ug/L  | 26-Oct-99       | 1               |               |
| ETI-R13-S-01-102699 | Bromomethane               | ND            | ug/L  | 26-Oct-99       | 2               |               |
| ETI-R13-S-01-102699 | Acetone                    | ND            | ug/L  | 26-Oct-99       | 10              | UJ            |
| ETI-R13-S-01-102699 | Phosphate as P, Ortho      | ND            | mg/L  | 26-Oct-99       | 0.5             |               |
| ETI-R13-S-01-102699 | Bromoform                  | ND            | ug/L  | 26-Oct-99       | 1               |               |
| ETI-R13-S-01-102699 | Fluoride                   | 0.64          | mg/L  | 26-Oct-99       | 1               |               |
| ETI-R13-S-01-102699 | Bromodichloromethane       | ND            | ug/L  | 26-Oct-99       | 1               |               |
| ETI-R13-S-01-102699 | Total Alkalinity           | 151           | mg/L  | 26-Oct-99       | 5               |               |
| ETI-R13-S-01-102699 | Tetrachloroethene          | 4.4           | ug/L  | 26-Oct-99       | 1.4             |               |
| ETI-R13-S-01-102699 | trans-1,3-Dichloropropene  | ND            | ug/L  | 26-Oct-99       | 1               |               |
| ETI-R13-S-01-102699 | trans-1,2-Dichloroethene   | ND            | ug/L  | 26-Oct-99       | 0.5             |               |
| ETI-R13-S-01-102699 | Carbonate Alkalinity       | 40            | mg/L  | 26-Oct-99       | 5               |               |

Appendix A  
Mound Plume Analytical Data

| Sample Number       | Compound                   | Sample Result | Units | Collection Date | Reporting Limit | Lab Qualifier |
|---------------------|----------------------------|---------------|-------|-----------------|-----------------|---------------|
| ETI-R13-S-01-102699 | 2-Butanone (MEK)           | ND            | ug/L  | 26-Oct-99       | 5               | UJ            |
| ETI-R13-S-01-102699 | Toluene                    | 0.21          | ug/L  | 26-Oct-99       | 1               |               |
| ETI-R13-S-01-102699 | Potassium                  | 1200          | ug/L  | 26-Oct-99       | 5000            |               |
| ETI-R13-S-01-102699 | Chloromethane              | ND            | ug/L  | 26-Oct-99       | 2               |               |
| ETI-R13-S-01-102699 | Methylene chloride         | 0.54          | ug/L  | 26-Oct-99       | 5               | U             |
| ETI-R13-S-01-102699 | cis-1,3-Dichloropropene    | ND            | ug/L  | 26-Oct-99       | 1               |               |
| ETI-R13-S-01-102699 | Dibromochloromethane       | ND            | ug/L  | 26-Oct-99       | 1               |               |
| ETI-R13-S-01-102699 | Manganese                  | 93.9          | ug/L  | 26-Oct-99       | 10              |               |
| ETI-R13-S-01-102699 | cis-1,2-Dichloroethene     | 13            | ug/L  | 26-Oct-99       | 1.2             |               |
| ETI-R13-S-01-102699 | Styrene                    | ND            | ug/L  | 26-Oct-99       | 1               |               |
| ETI-R13-S-01-102699 | Nitrate-Nitrite            | ND            | mg/L  | 26-Oct-99       | 0.1             |               |
| ETI-R13-S-01-102699 | Chloroform                 | 0.28          | ug/L  | 26-Oct-99       | 0.5             |               |
| ETI-R14-S-01-102699 | Carbonate Alkalinity       | 39.9          | mg/L  | 26-Oct-99       | 5               |               |
| ETI-R14-S-01-102699 | 4-Methyl-2-pentanone       | ND            | ug/L  | 26-Oct-99       | 5               |               |
| ETI-R14-S-01-102699 | Fluoride                   | 0.73          | mg/L  | 26-Oct-99       | 1               |               |
| ETI-R14-S-01-102699 | Trichloroethene            | 2.2           | ug/L  | 26-Oct-99       | 1               |               |
| ETI-R14-S-01-102699 | Total Alkalinity           | 138           | mg/L  | 26-Oct-99       | 5               |               |
| ETI-R14-S-01-102699 | Bicarbonate Alkalinity     | 98.1          | mg/L  | 26-Oct-99       | 5               |               |
| ETI-R14-S-01-102699 | Acetone                    | ND            | ug/L  | 26-Oct-99       | 10              | UJ            |
| ETI-R14-S-01-102699 | 2-Hexanone                 | ND            | ug/L  | 26-Oct-99       | 5               |               |
| ETI-R14-S-01-102699 | 1,2-Dichloroethane         | 0.56          | ug/L  | 26-Oct-99       | 1               |               |
| ETI-R14-S-01-102699 | TOTAL-URANIUM              | 0.002         | UG/L  | 26-Oct-99       | UJ              |               |
| ETI-R14-S-01-102699 | 1,1,2-Trichloroethane      | ND            | ug/L  | 26-Oct-99       | 1               |               |
| ETI-R14-S-01-102699 | trans-1,2-Dichloroethene   | ND            | ug/L  | 26-Oct-99       | 0.5             |               |
| ETI-R14-S-01-102699 | Toluene                    | 0.21          | ug/L  | 26-Oct-99       | 1               |               |
| ETI-R14-S-01-102699 | 1,1,1-Trichloroethane      | ND            | ug/L  | 26-Oct-99       | 0.8             |               |
| ETI-R14-S-01-102699 | Tetrachloroethene          | 2.5           | ug/L  | 26-Oct-99       | 1.4             |               |
| ETI-R14-S-01-102699 | Chloroform                 | 0.67          | ug/L  | 26-Oct-99       | 0.5             |               |
| ETI-R14-S-01-102699 | Styrene                    | ND            | ug/L  | 26-Oct-99       | 1               |               |
| ETI-R14-S-01-102699 | 1,1,2,2-Tetrachloroethane  | ND            | ug/L  | 26-Oct-99       | 1               |               |
| ETI-R14-S-01-102699 | Carbon disulfide           | ND            | ug/L  | 26-Oct-99       | 1               |               |
| ETI-R14-S-01-102699 | Ethylbenzene               | ND            | ug/L  | 26-Oct-99       | 1               |               |
| ETI-R14-S-01-102699 | Benzene                    | 0.21          | ug/L  | 26-Oct-99       | 1               | U             |
| ETI-R14-S-01-102699 | Chloroethane               | ND            | ug/L  | 26-Oct-99       | 2               |               |
| ETI-R14-S-01-102699 | Chlorobenzene              | ND            | ug/L  | 26-Oct-99       | 1               |               |
| ETI-R14-S-01-102699 | Carbon tetrachloride       | ND            | ug/L  | 26-Oct-99       | 2.1             |               |
| ETI-R14-S-01-102699 | 1,1-Dichloroethane         | 1.5           | ug/L  | 26-Oct-99       | 1.2             |               |
| ETI-R14-S-01-102699 | Bromomethane               | ND            | ug/L  | 26-Oct-99       | 2               |               |
| ETI-R14-S-01-102699 | Bromoform                  | ND            | ug/L  | 26-Oct-99       | 1               |               |
| ETI-R14-S-01-102699 | 1,1-Dichloroethene         | 1.6           | ug/L  | 26-Oct-99       | 1               |               |
| ETI-R14-S-01-102699 | Bromodichloromethane       | ND            | ug/L  | 26-Oct-99       | 1               |               |
| ETI-R14-S-01-102699 | Methylene chloride         | 0.68          | ug/L  | 26-Oct-99       | 5               | U             |
| ETI-R14-S-01-102699 | cis-1,2-Dichloroethene     | 13            | ug/L  | 26-Oct-99       | 1.2             |               |
| ETI-R14-S-01-102699 | Manganese                  | 92.6          | ug/L  | 26-Oct-99       | 10              |               |
| ETI-R14-S-01-102699 | Dibromochloromethane       | ND            | ug/L  | 26-Oct-99       | 1               |               |
| ETI-R14-S-01-102699 | Aluminum                   | ND            | ug/L  | 26-Oct-99       | 100             |               |
| ETI-R14-S-01-102699 | Iron                       | 81            | ug/L  | 26-Oct-99       | 100             |               |
| ETI-R14-S-01-102699 | Chloride                   | 66.4          | mg/L  | 26-Oct-99       | 6               |               |
| ETI-R14-S-01-102699 | 1,2-Dichloroethene (total) | 13            | ug/L  | 26-Oct-99       | 1               |               |
| ETI-R14-S-01-102699 | Magnesium                  | 20300         | ug/L  | 26-Oct-99       | 200             |               |
| ETI-R14-S-01-102699 | Calcium                    | 3420          | ug/L  | 26-Oct-99       | 200             |               |
| ETI-R14-S-01-102699 | cis-1,3-Dichloropropene    | ND            | ug/L  | 26-Oct-99       | 1               |               |

Appendix A  
Mound Plume Analytical Data

| Sample Number       | Compound                   | Sample Result | Units | Collection Date | Reporting Limit | Lab Qualifier |
|---------------------|----------------------------|---------------|-------|-----------------|-----------------|---------------|
| ETI-R14-S-01-102699 | trans-1,3-Dichloropropene  | ND            | ug/L  | 26-Oct-99       | 1               |               |
| ETI-R14-S-01-102699 | Potassium                  | 1220          | ug/L  | 26-Oct-99       | 5000            |               |
| ETI-R14-S-01-102699 | Phosphate as P, Ortho      | ND            | mg/L  | 26-Oct-99       | 0.5             |               |
| ETI-R14-S-01-102699 | Sulfate                    | 0.85          | mg/L  | 26-Oct-99       | 5               |               |
| ETI-R14-S-01-102699 | Chloromethane              | ND            | ug/L  | 26-Oct-99       | 2               |               |
| ETI-R14-S-01-102699 | Silica                     | 525           | ug/L  | 26-Oct-99       | 500             |               |
| ETI-R14-S-01-102699 | 2-Butanone (MEK)           | ND            | ug/L  | 26-Oct-99       | 5 UJ            |               |
| ETI-R14-S-01-102699 | 1,2-Dichloropropane        | ND            | ug/L  | 26-Oct-99       | 1               |               |
| ETI-R14-S-01-102699 | Nitrate-Nitrite            | ND            | mg/L  | 26-Oct-99       | 0.1             |               |
| ETI-R14-S-01-102699 | Xylenes (total)            | ND            | ug/L  | 26-Oct-99       | 1               |               |
| ETI-R14-S-01-102699 | Vinyl chloride             | 0.25          | ug/L  | 26-Oct-99       | 1.1             |               |
| ETI-R14-S-01-102699 | Sodium                     | 73000         | ug/L  | 26-Oct-99       | 5000            |               |
| ETI-R1E-S-01-102699 | Silica                     | 816           | ug/L  | 26-Oct-99       | 500             |               |
| ETI-R1E-S-01-102699 | Manganese                  | 54.6          | ug/L  | 26-Oct-99       | 10              |               |
| ETI-R1E-S-01-102699 | Magnesium                  | 24000         | ug/L  | 26-Oct-99       | 200             |               |
| ETI-R1E-S-01-102699 | Iron                       | 17.9          | ug/L  | 26-Oct-99       | 100             |               |
| ETI-R1E-S-01-102699 | Potassium                  | 1090          | ug/L  | 26-Oct-99       | 5000            |               |
| ETI-R1E-S-01-102699 | Carbon tetrachloride       | ND            | ug/L  | 26-Oct-99       | 2.1             |               |
| ETI-R1E-S-01-102699 | 1,1,2-Trichloroethane      | ND            | ug/L  | 26-Oct-99       | 1               |               |
| ETI-R1E-S-01-102699 | Chlorobenzene              | ND            | ug/L  | 26-Oct-99       | 1               |               |
| ETI-R1E-S-01-102699 | Chloroethane               | ND            | ug/L  | 26-Oct-99       | 2               |               |
| ETI-R1E-S-01-102699 | cis-1,2-Dichloroethene     | 11            | ug/L  | 26-Oct-99       | 1.2             |               |
| ETI-R1E-S-01-102699 | trans-1,2-Dichloroethene   | ND            | ug/L  | 26-Oct-99       | 0.5             |               |
| ETI-R1E-S-01-102699 | Chloromethane              | ND            | ug/L  | 26-Oct-99       | 2               |               |
| ETI-R1E-S-01-102699 | 1,2-Dichloropropane        | ND            | ug/L  | 26-Oct-99       | 1               |               |
| ETI-R1E-S-01-102699 | Toluene                    | 0.19          | ug/L  | 26-Oct-99       | 1               |               |
| ETI-R1E-S-01-102699 | 2-Butanone (MEK)           | ND            | ug/L  | 26-Oct-99       | 5 UJ            |               |
| ETI-R1E-S-01-102699 | 1,1,2,2-Tetrachloroethane  | ND            | ug/L  | 26-Oct-99       | 1               |               |
| ETI-R1E-S-01-102699 | Tetrachloroethene          | 1.5           | ug/L  | 26-Oct-99       | 1.4             |               |
| ETI-R1E-S-01-102699 | Ethylbenzene               | ND            | ug/L  | 26-Oct-99       | 1               |               |
| ETI-R1E-S-01-102699 | Chloroform                 | 0.93          | ug/L  | 26-Oct-99       | 0.5             |               |
| ETI-R1E-S-01-102699 | 1,2-Dichloroethene (total) | 11            | ug/L  | 26-Oct-99       | 1               |               |
| ETI-R1E-S-01-102699 | Styrene                    | ND            | ug/L  | 26-Oct-99       | 1               |               |
| ETI-R1E-S-01-102699 | cis-1,3-Dichloropropene    | ND            | ug/L  | 26-Oct-99       | 1               |               |
| ETI-R1E-S-01-102699 | Methylene chloride         | 0.76          | ug/L  | 26-Oct-99       | 5 U             |               |
| ETI-R1E-S-01-102699 | Dibromochloromethane       | ND            | ug/L  | 26-Oct-99       | 1               |               |
| ETI-R1E-S-01-102699 | 1,1,1-Trichloroethane      | ND            | ug/L  | 26-Oct-99       | 0.8             |               |
| ETI-R1E-S-01-102699 | Sulfate                    | 1.3           | mg/L  | 26-Oct-99       | 5               |               |
| ETI-R1E-S-01-102699 | Phosphate as P, Ortho      | ND            | mg/L  | 26-Oct-99       | 0.5             |               |
| ETI-R1E-S-01-102699 | Phosphate as P, Ortho      | 4.78          | mg/L  | 26-Oct-99       | 0.5             |               |
| ETI-R1E-S-01-102699 | 2-Hexanone                 | ND            | ug/L  | 26-Oct-99       | 5               |               |
| ETI-R1E-S-01-102699 | trans-1,3-Dichloropropene  | ND            | ug/L  | 26-Oct-99       | 1               |               |
| ETI-R1E-S-01-102699 | Phosphate as P, Ortho      | 4.79          | mg/L  | 26-Oct-99       | 0.5             |               |
| ETI-R1E-S-01-102699 | Xylenes (total)            | ND            | ug/L  | 26-Oct-99       | 1               |               |
| ETI-R1E-S-01-102699 | Carbon disulfide           | ND            | ug/L  | 26-Oct-99       | 1               |               |
| ETI-R1E-S-01-102699 | Total Alkalinity           | 136           | mg/L  | 26-Oct-99       | 5               |               |
| ETI-R1E-S-01-102699 | 1,2-Dichloroethane         | 0.53          | ug/L  | 26-Oct-99       | 1               |               |
| ETI-R1E-S-01-102699 | Sulfate                    | 24.4          | mg/L  | 26-Oct-99       | 5               |               |
| ETI-R1E-S-01-102699 | Sulfate                    | 24.4          | mg/L  | 26-Oct-99       | 5               |               |
| ETI-R1E-S-01-102699 | Carbonate Alkalinity       | 41            | mg/L  | 26-Oct-99       | 5               |               |
| ETI-R1E-S-01-102699 | Nitrate-Nitrite            | ND            | mg/L  | 26-Oct-99       | 0.1             |               |
| ETI-R1E-S-01-102699 | Vinyl chloride             | 0.22          | ug/L  | 26-Oct-99       | 1.1             |               |

Appendix A  
Mound Plume Analytical Data

| Sample Number       | Compound               | Sample Result | Units | Collection Date | Reporting Limit | Lab Qualifier |
|---------------------|------------------------|---------------|-------|-----------------|-----------------|---------------|
| ETI-R1E-S-01-102699 | Bicarbonate Alkalinity | 94.6          | mg/L  | 26-Oct-99       | 5               |               |
| ETI-R1E-S-01-102699 | Nitrate-Nitrite        | 5.4           | mg/L  | 26-Oct-99       | 0.1             |               |
| ETI-R1E-S-01-102699 | TOTAL-URANIUM          | 0.016         | UG/L  | 26-Oct-99       |                 | UJ            |
| ETI-R1E-S-01-102699 | Chloride               | 85.5          | mg/L  | 26-Oct-99       | 6               |               |
| ETI-R1E-S-01-102699 | Trichloroethene        | 1.2           | ug/L  | 26-Oct-99       | 1               |               |
| ETI-R1E-S-01-102699 | Sodium                 | 65000         | ug/L  | 26-Oct-99       | 5000            |               |
| ETI-R1E-S-01-102699 | Nitrate-Nitrite        | 5.49          | mg/L  | 26-Oct-99       | 0.1             |               |
| ETI-R1E-S-01-102699 | Bromomethane           | ND            | ug/L  | 26-Oct-99       | 2               |               |
| ETI-R1E-S-01-102699 | Chloride               | 62            | mg/L  | 26-Oct-99       | 6               |               |
| ETI-R1E-S-01-102699 | Calcium                | 2550          | ug/L  | 26-Oct-99       | 200             |               |
| ETI-R1E-S-01-102699 | Bromoform              | ND            | ug/L  | 26-Oct-99       | 1               |               |
| ETI-R1E-S-01-102699 | 4-Methyl-2-pentanone   | ND            | ug/L  | 26-Oct-99       | 5               |               |
| ETI-R1E-S-01-102699 | 1,1-Dichloroethene     | 1.2           | ug/L  | 26-Oct-99       | 1               |               |
| ETI-R1E-S-01-102699 | Fluoride               | 5.51          | mg/L  | 26-Oct-99       | 1               |               |
| ETI-R1E-S-01-102699 | Bromodichloromethane   | ND            | ug/L  | 26-Oct-99       | 1               |               |
| ETI-R1E-S-01-102699 | Fluoride               | 0.72          | mg/L  | 26-Oct-99       | 1               |               |
| ETI-R1E-S-01-102699 | Benzene                | 0.21          | ug/L  | 26-Oct-99       | 1.0             |               |
| ETI-R1E-S-01-102699 | Fluoride               | 5.38          | mg/L  | 26-Oct-99       | 1               |               |
| ETI-R1E-S-01-102699 | Aluminum               | ND            | ug/L  | 26-Oct-99       | 100             |               |
| ETI-R1E-S-01-102699 | Acetone                | ND            | ug/L  | 26-Oct-99       | 10              | UJ            |
| ETI-R1E-S-01-102699 | 1,1-Dichloroethane     | 1.4           | ug/L  | 26-Oct-99       | 1.2             |               |
| ETI-R1E-S-01-102699 | Chloride               | 85.5          | mg/L  | 26-Oct-99       | 6               |               |

**Appendix B – East Trenches Plume Analytical Data**

Appendix B  
East Trenches Analytical Data

| Location        | Sample Date | Analyte                   | Result Type | Result | Units | Lab Qual. | Validation | Detect Limit | Dilution |
|-----------------|-------------|---------------------------|-------------|--------|-------|-----------|------------|--------------|----------|
| E. Tr. Effluent | 10/25/99    | n-PROPYLBENZENE           | TR1         | 1      | UG/L  | U         |            | 1            | 1        |
| E. Tr. Influent | 10/25/99    | n-PROPYLBENZENE           | TR1         | 250    | UG/L  | U         |            | 250          | 250      |
| 23296           | 10/28/99    | n-PROPYLBENZENE           | TR1         | 20     | UG/L  | U         |            | 20           | 20       |
| 95199           | 10/25/99    | n-PROPYLBENZENE           | TR1         | 2      | UG/L  | U         |            | 2            | 2        |
| 95099           | 10/24/99    | n-PROPYLBENZENE           | TR1         | 1      | UG/L  | U         |            | 1            | 1        |
| E. Tr. Effluent | 10/25/99    | n-BUTYLBENZENE            | TR1         | 1      | UG/L  | U         |            | 1            | 1        |
| E. Tr. Influent | 10/25/99    | n-BUTYLBENZENE            | TR1         | 250    | UG/L  | U         |            | 250          | 250      |
| 23296           | 10/28/99    | n-BUTYLBENZENE            | TR1         | 20     | UG/L  | U         |            | 20           | 20       |
| 95199           | 10/25/99    | n-BUTYLBENZENE            | TR1         | 2      | UG/L  | U         |            | 2            | 2        |
| 95099           | 10/24/99    | n-BUTYLBENZENE            | TR1         | 1      | UG/L  | U         |            | 1            | 1        |
| E. Tr. Effluent | 10/25/99    | 1,4-DICHLOROBENZENE       | TR1         | 1      | UG/L  | U         |            | 1            | 1        |
| E. Tr. Influent | 10/25/99    | 1,4-DICHLOROBENZENE       | TR1         | 250    | UG/L  | U         |            | 250          | 250      |
| 23296           | 10/28/99    | 1,4-DICHLOROBENZENE       | TR1         | 20     | UG/L  | U         |            | 20           | 20       |
| 95199           | 10/25/99    | 1,4-DICHLOROBENZENE       | TR1         | 2      | UG/L  | U         |            | 2            | 2        |
| 95099           | 10/24/99    | 1,4-DICHLOROBENZENE       | TR1         | 1      | UG/L  | U         |            | 1            | 1        |
| E. Tr. Effluent | 10/25/99    | 1,2-DIBROMOETHANE         | TR1         | 1      | UG/L  | U         |            | 1            | 1        |
| E. Tr. Influent | 10/25/99    | 1,2-DIBROMOETHANE         | TR1         | 250    | UG/L  | U         |            | 250          | 250      |
| 23296           | 10/28/99    | 1,2-DIBROMOETHANE         | TR1         | 20     | UG/L  | U         |            | 20           | 20       |
| 95199           | 10/25/99    | 1,2-DIBROMOETHANE         | TR1         | 2      | UG/L  | U         |            | 2            | 2        |
| 95099           | 10/24/99    | 1,2-DIBROMOETHANE         | TR1         | 1      | UG/L  | U         |            | 1            | 1        |
| E. Tr. Effluent | 10/25/99    | 1,2-DICHLOROETHANE        | TR1         | 1      | UG/L  | U         |            | 1            | 1        |
| E. Tr. Influent | 10/25/99    | 1,2-DICHLOROETHANE        | TR1         | 250    | UG/L  | U         |            | 250          | 250      |
| 23296           | 10/28/99    | 1,2-DICHLOROETHANE        | TR1         | 20     | UG/L  | U         |            | 20           | 20       |
| 95199           | 10/25/99    | 1,2-DICHLOROETHANE        | TR1         | 2      | UG/L  | U         |            | 2            | 2        |
| 95099           | 10/24/99    | 1,2-DICHLOROETHANE        | TR1         | 1      | UG/L  | U         |            | 1            | 1        |
| E. Tr. Effluent | 10/25/99    | BENZENE, 1,3,5-TRIMETHYL- | TR1         | 1      | UG/L  | U         |            | 1            | 1        |
| E. Tr. Influent | 10/25/99    | BENZENE, 1,3,5-TRIMETHYL- | TR1         | 250    | UG/L  | U         |            | 250          | 250      |
| 23296           | 10/28/99    | BENZENE, 1,3,5-TRIMETHYL- | TR1         | 20     | UG/L  | U         |            | 20           | 20       |
| 95199           | 10/25/99    | BENZENE, 1,3,5-TRIMETHYL- | TR1         | 2      | UG/L  | U         |            | 2            | 2        |
| 95099           | 10/24/99    | BENZENE, 1,3,5-TRIMETHYL- | TR1         | 1      | UG/L  | U         |            | 1            | 1        |
| E. Tr. Effluent | 10/25/99    | 1,2,4-TRICHLOROBENZENE    | TR1         | 1      | UG/L  | U         |            | 1            | 1        |
| E. Tr. Influent | 10/25/99    | 1,2,4-TRICHLOROBENZENE    | TR1         | 250    | UG/L  | U         |            | 250          | 250      |
| 23296           | 10/28/99    | 1,2,4-TRICHLOROBENZENE    | TR1         | 20     | UG/L  | U         |            | 20           | 20       |
| 95199           | 10/25/99    | 1,2,4-TRICHLOROBENZENE    | TR1         | 2      | UG/L  | U         |            | 2            | 2        |
| 95099           | 10/24/99    | 1,2,4-TRICHLOROBENZENE    | TR1         | 1      | UG/L  | U         |            | 1            | 1        |
| E. Tr. Effluent | 10/25/99    | DIBROMOCHLOROMETHANE      | TR1         | 1      | UG/L  | U         |            | 1            | 1        |
| E. Tr. Influent | 10/25/99    | DIBROMOCHLOROMETHANE      | TR1         | 250    | UG/L  | U         |            | 250          | 250      |
| 23296           | 10/28/99    | DIBROMOCHLOROMETHANE      | TR1         | 20     | UG/L  | U         |            | 20           | 20       |
| 95199           | 10/25/99    | DIBROMOCHLOROMETHANE      | TR1         | 2      | UG/L  | U         |            | 2            | 2        |
| 95099           | 10/24/99    | DIBROMOCHLOROMETHANE      | TR1         | 1      | UG/L  | U         |            | 1            | 1        |
| E. Tr. Effluent | 10/25/99    | TOTAL XYLEMES             | TR1         | 1      | UG/L  | U         |            | 1            | 1        |
| E. Tr. Influent | 10/25/99    | TOTAL XYLEMES             | TR1         | 250    | UG/L  | U         |            | 250          | 250      |
| 23296           | 10/28/99    | TOTAL XYLEMES             | TR1         | 20     | UG/L  | U         |            | 20           | 20       |
| 95199           | 10/25/99    | TOTAL XYLEMES             | TR1         | 2      | UG/L  | U         |            | 2            | 2        |
| 95099           | 10/24/99    | TOTAL XYLEMES             | TR1         | 1      | UG/L  | U         |            | 1            | 1        |
| E. Tr. Effluent | 10/25/99    | sec-BUTYLBENZENE          | TR1         | 1      | UG/L  | U         |            | 1            | 1        |
| E. Tr. Influent | 10/25/99    | sec-BUTYLBENZENE          | TR1         | 250    | UG/L  | U         |            | 250          | 250      |
| 23296           | 10/28/99    | sec-BUTYLBENZENE          | TR1         | 20     | UG/L  | U         |            | 20           | 20       |
| 95199           | 10/25/99    | sec-BUTYLBENZENE          | TR1         | 2      | UG/L  | U         |            | 2            | 2        |
| 95099           | 10/24/99    | sec-BUTYLBENZENE          | TR1         | 1      | UG/L  | U         |            | 1            | 1        |
| E. Tr. Effluent | 10/25/99    | 1,3-DICHLOROPROPANE       | TR1         | 1      | UG/L  | U         |            | 1            | 1        |
| E. Tr. Influent | 10/25/99    | 1,3-DICHLOROPROPANE       | TR1         | 250    | UG/L  | U         |            | 250          | 250      |
| 23296           | 10/28/99    | 1,3-DICHLOROPROPANE       | TR1         | 20     | UG/L  | U         |            | 20           | 20       |
| 95199           | 10/25/99    | 1,3-DICHLOROPROPANE       | TR1         | 2      | UG/L  | U         |            | 2            | 2        |
| 95099           | 10/24/99    | 1,3-DICHLOROPROPANE       | TR1         | 1      | UG/L  | U         |            | 1            | 1        |
| E. Tr. Effluent | 10/25/99    | cis-1,2-DICHLOROETHENE    | TR1         | 22     | UG/L  | J         |            | 1            | 1        |
| E. Tr. Influent | 10/25/99    | cis-1,2-DICHLOROETHENE    | TR1         | 33     | UG/L  | J         |            | 250          | 250      |
| 23296           | 10/28/99    | cis-1,2-DICHLOROETHENE    | TR1         | 170    | UG/L  | J         |            | 20           | 20       |
| 95199           | 10/25/99    | cis-1,2-DICHLOROETHENE    | TR1         | 1      | UG/L  | J         |            | 2            | 2        |
| 95099           | 10/24/99    | cis-1,2-DICHLOROETHENE    | TR1         | 1      | UG/L  | J         |            | 1            | 1        |
| E. Tr. Effluent | 10/25/99    | CARBON TETRACHLORIDE      | TR1         | 1      | UG/L  | J         |            | 1            | 1        |
| E. Tr. Influent | 10/25/99    | CARBON TETRACHLORIDE      | TR1         | 140    | UG/L  | J         |            | 250          | 250      |
| 23296           | 10/28/99    | CARBON TETRACHLORIDE      | TR1         | 3      | UG/L  | J         |            | 20           | 20       |
| 95199           | 10/25/99    | CARBON TETRACHLORIDE      | TR1         | 2      | UG/L  | J         |            | 2            | 2        |
| 95099           | 10/24/99    | CARBON TETRACHLORIDE      | TR1         | 0.2    | UG/L  | J         |            | 1            | 1        |

Appendix B  
East Trenches Analytical Data

|                 |          |                           |     |      |      |    |  |      |     |
|-----------------|----------|---------------------------|-----|------|------|----|--|------|-----|
| E. Tr. Effluent | 10/25/99 | 1,1-DICHLOROPROPENE       | TR1 | 1    | UG/L | U  |  | 1    | 1   |
| E. Tr. Influent | 10/25/99 | 1,1-DICHLOROPROPENE       | TR1 | 250  | UG/L | U  |  | 250  | 250 |
| 23296           | 10/28/99 | 1,1-DICHLOROPROPENE       | TR1 | 20   | UG/L | U  |  | 20   | 20  |
| 95199           | 10/25/99 | 1,1-DICHLOROPROPENE       | TR1 | 2    | UG/L | U  |  | 2    | 2   |
| 95099           | 10/24/99 | 1,1-DICHLOROPROPENE       | TR1 | 1    | UG/L | U  |  | 1    | 1   |
| E. Tr. Effluent | 10/25/99 | 2,2-DICHLOROPROPANE       | TR1 | 1    | UG/L | U  |  | 1    | 1   |
| E. Tr. Influent | 10/25/99 | 2,2-DICHLOROPROPANE       | TR1 | 250  | UG/L | U  |  | 250  | 250 |
| 23296           | 10/28/99 | 2,2-DICHLOROPROPANE       | TR1 | 20   | UG/L | U  |  | 20   | 20  |
| 95199           | 10/25/99 | 2,2-DICHLOROPROPANE       | TR1 | 2    | UG/L | U  |  | 2    | 2   |
| 95099           | 10/24/99 | 2,2-DICHLOROPROPANE       | TR1 | 1    | UG/L | U  |  | 1    | 1   |
| E. Tr. Effluent | 10/25/99 | 1,1,1,2-TETRACHLOROETHANE | TR1 | 1    | UG/L | U  |  | 1    | 1   |
| E. Tr. Influent | 10/25/99 | 1,1,1,2-TETRACHLOROETHANE | TR1 | 250  | UG/L | U  |  | 250  | 250 |
| 23296           | 10/28/99 | 1,1,1,2-TETRACHLOROETHANE | TR1 | 20   | UG/L | U  |  | 20   | 20  |
| 95199           | 10/25/99 | 1,1,1,2-TETRACHLOROETHANE | TR1 | 2    | UG/L | U  |  | 2    | 2   |
| 95099           | 10/24/99 | 1,1,1,2-TETRACHLOROETHANE | TR1 | 1    | UG/L | U  |  | 1    | 1   |
| E. Tr. Effluent | 10/25/99 | ALUMINUM                  | TR1 | 24.8 | UG/L |    |  | 2.5  | 1   |
| E. Tr. Influent | 10/25/99 | ALUMINUM                  | TR1 | 19.3 | UG/L |    |  | 2.5  | 1   |
| E. Tr. Effluent | 10/25/99 | IRON                      | TR1 | 22.7 | UG/L | B  |  | 3.4  | 1   |
| E. Tr. Influent | 10/25/99 | IRON                      | TR1 | 7.2  | UG/L | B  |  | 3.4  | 1   |
| E. Tr. Effluent | 10/25/99 | LEAD                      | TR1 | 0.52 | UG/L | U  |  | 0.52 | 1   |
| E. Tr. Influent | 10/25/99 | LEAD                      | TR1 | 0.52 | UG/L | U  |  | 0.52 | 1   |
| E. Tr. Effluent | 10/25/99 | MANGANESE                 | TR1 | 267  | UG/L |    |  | 0.05 | 1   |
| E. Tr. Influent | 10/25/99 | MANGANESE                 | TR1 | 6.3  | UG/L | B  |  | 0.05 | 1   |
| E. Tr. Effluent | 10/25/99 | MERCURY                   | TR1 | 0.1  | UG/L | U  |  | 0.1  | 1   |
| E. Tr. Influent | 10/25/99 | MERCURY                   | TR1 | 0.1  | UG/L | U  |  | 0.1  | 1   |
| E. Tr. Effluent | 10/25/99 | NICKEL                    | TR1 | 0.39 | UG/L | B  |  | 0.25 | 1   |
| E. Tr. Influent | 10/25/99 | NICKEL                    | TR1 | 1.4  | UG/L | B  |  | 0.25 | 1   |
| E. Tr. Effluent | 10/25/99 | SILVER                    | TR1 | 0.2  | UG/L | U  |  | 0.2  | 1   |
| E. Tr. Influent | 10/25/99 | SILVER                    | TR1 | 0.2  | UG/L | U  |  | 0.2  | 1   |
| E. Tr. Effluent | 10/25/99 | STRONTIUM                 | TR1 | 19   | UG/L | B  |  | 0.02 | 1   |
| E. Tr. Influent | 10/25/99 | STRONTIUM                 | TR1 | 572  | UG/L |    |  | 0.02 | 1   |
| E. Tr. Effluent | 10/25/99 | TIN                       | TR1 | 0.65 | UG/L | U  |  | 0.65 | 1   |
| E. Tr. Influent | 10/25/99 | TIN                       | TR1 | 0.65 | UG/L | U  |  | 0.65 | 1   |
| E. Tr. Effluent | 10/25/99 | CHROMIUM                  | TR1 | 0.24 | UG/L | B  |  | 0.18 | 1   |
| E. Tr. Influent | 10/25/99 | CHROMIUM                  | TR1 | 0.62 | UG/L | B  |  | 0.18 | 1   |
| E. Tr. Effluent | 10/25/99 | VANADIUM                  | TR1 | 0.15 | UG/L | U  |  | 0.15 | 1   |
| E. Tr. Influent | 10/25/99 | VANADIUM                  | TR1 | 0.6  | UG/L | B  |  | 0.15 | 1   |
| E. Tr. Effluent | 10/25/99 | ZINC                      | TR1 | 2    | UG/L | B  |  | 0.12 | 1   |
| E. Tr. Influent | 10/25/99 | ZINC                      | TR1 | 1.7  | UG/L | B  |  | 0.12 | 1   |
| E. Tr. Effluent | 10/25/99 | METHYLENE CHLORIDE        | TR1 | 15   | UG/L | B  |  | 1    | 1   |
| E. Tr. Influent | 10/25/99 | METHYLENE CHLORIDE        | TR1 | 110  | UG/L | JB |  | 250  | 250 |
| 23296           | 10/28/99 | METHYLENE CHLORIDE        | TR1 | 3    | UG/L | JB |  | 20   | 20  |
| 95199           | 10/25/99 | METHYLENE CHLORIDE        | TR1 | 0.3  | UG/L | JB |  | 2    | 2   |
| 95099           | 10/24/99 | METHYLENE CHLORIDE        | TR1 | 0.1  | UG/L | BJ |  | 1    | 1   |
| E. Tr. Effluent | 10/25/99 | BROMOFORM                 | TR1 | 1    | UG/L | U  |  | 1    | 1   |
| E. Tr. Influent | 10/25/99 | BROMOFORM                 | TR1 | 250  | UG/L | U  |  | 250  | 250 |
| 23296           | 10/28/99 | BROMOFORM                 | TR1 | 20   | UG/L | U  |  | 20   | 20  |
| 95199           | 10/25/99 | BROMOFORM                 | TR1 | 2    | UG/L | U  |  | 2    | 2   |
| 95099           | 10/24/99 | BROMOFORM                 | TR1 | 1    | UG/L | U  |  | 1    | 1   |
| E. Tr. Effluent | 10/25/99 | BROMODICHLOROMETHANE      | TR1 | 1    | UG/L | U  |  | 1    | 1   |
| E. Tr. Influent | 10/25/99 | BROMODICHLOROMETHANE      | TR1 | 250  | UG/L | U  |  | 250  | 250 |
| 23296           | 10/28/99 | BROMODICHLOROMETHANE      | TR1 | 20   | UG/L | U  |  | 20   | 20  |
| 95199           | 10/25/99 | BROMODICHLOROMETHANE      | TR1 | 2    | UG/L | U  |  | 2    | 2   |
| 95099           | 10/24/99 | BROMODICHLOROMETHANE      | TR1 | 1    | UG/L | U  |  | 1    | 1   |
| E. Tr. Effluent | 10/25/99 | 1,1-DICHLOROETHANE        | TR1 | 1    | UG/L |    |  | 1    | 1   |
| E. Tr. Influent | 10/25/99 | 1,1-DICHLOROETHANE        | TR1 | 250  | UG/L | U  |  | 250  | 250 |
| 23296           | 10/28/99 | 1,1-DICHLOROETHANE        | TR1 | 20   | UG/L | U  |  | 20   | 20  |
| 95199           | 10/25/99 | 1,1-DICHLOROETHANE        | TR1 | 1    | UG/L | U  |  | 2    | 2   |
| 95099           | 10/24/99 | 1,1-DICHLOROETHANE        | TR1 | 1    | UG/L | U  |  | 1    | 1   |
| E. Tr. Effluent | 10/25/99 | 1,1-DICHLOROETHENE        | TR1 | 0.6  | UG/L | U  |  | 1    | 1   |
| E. Tr. Influent | 10/25/99 | 1,1-DICHLOROETHENE        | TR1 | 250  | UG/L | U  |  | 250  | 250 |
| 23296           | 10/28/99 | 1,1-DICHLOROETHENE        | TR1 | 20   | UG/L | U  |  | 20   | 20  |
| 95199           | 10/25/99 | 1,1-DICHLOROETHENE        | TR1 | 0.7  | UG/L | U  |  | 2    | 2   |
| 95099           | 10/24/99 | 1,1-DICHLOROETHENE        | TR1 | 1    | UG/L | U  |  | 1    | 1   |
| E. Tr. Effluent | 10/25/99 | TRICHLOROFLUOROMETHANE    | TR1 | 1    | UG/L | U  |  | 1    | 1   |
| E. Tr. Influent | 10/25/99 | TRICHLOROFLUOROMETHANE    | TR1 | 250  | UG/L | U  |  | 250  | 250 |
| 23296           | 10/28/99 | TRICHLOROFLUOROMETHANE    | TR1 | 20   | UG/L | U  |  | 20   | 20  |
| 95199           | 10/25/99 | TRICHLOROFLUOROMETHANE    | TR1 | 2    | UG/L | U  |  | 2    | 2   |

**Appendix B**  
**East Trenches Analytical Data**

|                 |          |                                |     |     |      |   |  |     |     |
|-----------------|----------|--------------------------------|-----|-----|------|---|--|-----|-----|
| 95099           | 10/24/99 | TRICHLOROFLUOROMETHANE         | TR1 | 1   | UG/L | U |  | 1   | 1   |
| E. Tr. Effluent | 10/25/99 | DICHLORODIFLUOROMETHANE        | TR1 | 1   | UG/L | U |  | 1   | 1   |
| E. Tr. Influent | 10/25/99 | DICHLORODIFLUOROMETHANE        | TR1 | 250 | UG/L | U |  | 250 | 250 |
| 23296           | 10/28/99 | DICHLORODIFLUOROMETHANE        | TR1 | 20  | UG/L | U |  | 20  | 20  |
| 95199           | 10/25/99 | DICHLORODIFLUOROMETHANE        | TR1 | 2   | UG/L | U |  | 2   | 2   |
| 95099           | 10/24/99 | DICHLORODIFLUOROMETHANE        | TR1 | 1   | UG/L | U |  | 1   | 1   |
| E. Tr. Effluent | 10/25/99 | 1,2-DICHLOROPROPANE            | TR1 | 1   | UG/L | U |  | 1   | 1   |
| E. Tr. Influent | 10/25/99 | 1,2-DICHLOROPROPANE            | TR1 | 250 | UG/L | U |  | 250 | 250 |
| 23296           | 10/28/99 | 1,2-DICHLOROPROPANE            | TR1 | 20  | UG/L | U |  | 20  | 20  |
| 95199           | 10/25/99 | 1,2-DICHLOROPROPANE            | TR1 | 2   | UG/L | U |  | 2   | 2   |
| 95099           | 10/24/99 | 1,2-DICHLOROPROPANE            | TR1 | 1   | UG/L | U |  | 1   | 1   |
| E. Tr. Effluent | 10/25/99 | 1,1,2-TRICHLOROETHANE          | TR1 | 1   | UG/L | U |  | 1   | 1   |
| E. Tr. Influent | 10/25/99 | 1,1,2-TRICHLOROETHANE          | TR1 | 250 | UG/L | U |  | 250 | 250 |
| 23296           | 10/28/99 | 1,1,2-TRICHLOROETHANE          | TR1 | 20  | UG/L | U |  | 20  | 20  |
| 95199           | 10/25/99 | 1,1,2-TRICHLOROETHANE          | TR1 | 2   | UG/L | U |  | 2   | 2   |
| 95099           | 10/24/99 | 1,1,2-TRICHLOROETHANE          | TR1 | 1   | UG/L | U |  | 1   | 1   |
| E. Tr. Effluent | 10/25/99 | 1,2,3-TRICHLOROBENZENE         | TR1 | 1   | UG/L | U |  | 1   | 1   |
| E. Tr. Influent | 10/25/99 | 1,2,3-TRICHLOROBENZENE         | TR1 | 250 | UG/L | U |  | 250 | 250 |
| 23296           | 10/28/99 | 1,2,3-TRICHLOROBENZENE         | TR1 | 20  | UG/L | U |  | 20  | 20  |
| 95199           | 10/25/99 | 1,2,3-TRICHLOROBENZENE         | TR1 | 2   | UG/L | U |  | 2   | 2   |
| 95099           | 10/24/99 | 1,2,3-TRICHLOROBENZENE         | TR1 | 0.1 | UG/L | J |  | 1   | 1   |
| E. Tr. Effluent | 10/25/99 | 1,2-DICHLOROBENZENE            | TR1 | 1   | UG/L | U |  | 1   | 1   |
| E. Tr. Influent | 10/25/99 | 1,2-DICHLOROBENZENE            | TR1 | 250 | UG/L | U |  | 250 | 250 |
| 23296           | 10/28/99 | 1,2-DICHLOROBENZENE            | TR1 | 20  | UG/L | U |  | 20  | 20  |
| 95199           | 10/25/99 | 1,2-DICHLOROBENZENE            | TR1 | 2   | UG/L | U |  | 2   | 2   |
| 95099           | 10/24/99 | 1,2-DICHLOROBENZENE            | TR1 | 1   | UG/L | U |  | 1   | 1   |
| E. Tr. Effluent | 10/25/99 | PROPANE, 1,2-DIBROMO-3-CHLORO- | TR1 | 1   | UG/L | U |  | 1   | 1   |
| E. Tr. Influent | 10/25/99 | PROPANE, 1,2-DIBROMO-3-CHLORO- | TR1 | 250 | UG/L | U |  | 250 | 250 |
| 23296           | 10/28/99 | PROPANE, 1,2-DIBROMO-3-CHLORO- | TR1 | 20  | UG/L | U |  | 20  | 20  |
| 95199           | 10/25/99 | PROPANE, 1,2-DIBROMO-3-CHLORO- | TR1 | 2   | UG/L | U |  | 2   | 2   |
| 95099           | 10/24/99 | PROPANE, 1,2-DIBROMO-3-CHLORO- | TR1 | 1   | UG/L | U |  | 1   | 1   |
| E. Tr. Effluent | 10/25/99 | STYRENE                        | TR1 | 1   | UG/L | U |  | 1   | 1   |
| E. Tr. Influent | 10/25/99 | STYRENE                        | TR1 | 250 | UG/L | U |  | 250 | 250 |
| 23296           | 10/28/99 | STYRENE                        | TR1 | 20  | UG/L | U |  | 20  | 20  |
| 95199           | 10/25/99 | STYRENE                        | TR1 | 2   | UG/L | U |  | 2   | 2   |
| 95099           | 10/24/99 | STYRENE                        | TR1 | 1   | UG/L | U |  | 1   | 1   |
| E. Tr. Effluent | 10/25/99 | BROMOBENZENE                   | TR1 | 1   | UG/L | U |  | 1   | 1   |
| E. Tr. Influent | 10/25/99 | BROMOBENZENE                   | TR1 | 250 | UG/L | U |  | 250 | 250 |
| 23296           | 10/28/99 | BROMOBENZENE                   | TR1 | 20  | UG/L | U |  | 20  | 20  |
| 95199           | 10/25/99 | BROMOBENZENE                   | TR1 | 2   | UG/L | U |  | 2   | 2   |
| 95099           | 10/24/99 | BROMOBENZENE                   | TR1 | 1   | UG/L | U |  | 1   | 1   |
| E. Tr. Effluent | 10/25/99 | TOLUENE                        | TR1 | 1   | UG/L | U |  | 1   | 1   |
| E. Tr. Influent | 10/25/99 | TOLUENE                        | TR1 | 250 | UG/L | U |  | 250 | 250 |
| 23296           | 10/28/99 | TOLUENE                        | TR1 | 20  | UG/L | U |  | 20  | 20  |
| 95199           | 10/25/99 | TOLUENE                        | TR1 | 2   | UG/L | U |  | 2   | 2   |
| 95099           | 10/24/99 | TOLUENE                        | TR1 | 1   | UG/L | U |  | 1   | 1   |
| E. Tr. Effluent | 10/25/99 | CHLOROBENZENE                  | TR1 | 1   | UG/L | U |  | 1   | 1   |
| E. Tr. Influent | 10/25/99 | CHLOROBENZENE                  | TR1 | 250 | UG/L | U |  | 250 | 250 |
| 23296           | 10/28/99 | CHLOROBENZENE                  | TR1 | 20  | UG/L | U |  | 20  | 20  |
| 95199           | 10/25/99 | CHLOROBENZENE                  | TR1 | 2   | UG/L | U |  | 2   | 2   |
| 95099           | 10/24/99 | CHLOROBENZENE                  | TR1 | 1   | UG/L | U |  | 1   | 1   |
| E. Tr. Effluent | 10/25/99 | trans-1,2-DICHLOROETHENE       | TR1 | 1   | UG/L | U |  | 1   | 1   |
| E. Tr. Influent | 10/25/99 | trans-1,2-DICHLOROETHENE       | TR1 | 250 | UG/L | U |  | 250 | 250 |
| 23296           | 10/28/99 | trans-1,2-DICHLOROETHENE       | TR1 | 20  | UG/L | U |  | 20  | 20  |
| 95199           | 10/25/99 | trans-1,2-DICHLOROETHENE       | TR1 | 2   | UG/L | U |  | 2   | 2   |
| 95099           | 10/24/99 | trans-1,2-DICHLOROETHENE       | TR1 | 1   | UG/L | U |  | 1   | 1   |
| E. Tr. Effluent | 10/25/99 | BENZENE                        | TR1 | 0.5 | UG/L | J |  | 1   | 1   |
| E. Tr. Influent | 10/25/99 | BENZENE                        | TR1 | 250 | UG/L | U |  | 250 | 250 |
| 23296           | 10/28/99 | BENZENE                        | TR1 | 20  | UG/L | U |  | 20  | 20  |
| 95199           | 10/25/99 | BENZENE                        | TR1 | 2   | UG/L | U |  | 2   | 2   |
| 95099           | 10/24/99 | BENZENE                        | TR1 | 1   | UG/L | U |  | 1   | 1   |
| E. Tr. Effluent | 10/25/99 | CHLOROMETHANE                  | TR1 | 1   | UG/L | U |  | 1   | 1   |
| E. Tr. Influent | 10/25/99 | CHLOROMETHANE                  | TR1 | 250 | UG/L | U |  | 250 | 250 |
| 23296           | 10/28/99 | CHLOROMETHANE                  | TR1 | 20  | UG/L | U |  | 20  | 20  |
| 95199           | 10/25/99 | CHLOROMETHANE                  | TR1 | 2   | UG/L | U |  | 2   | 2   |
| 95099           | 10/24/99 | CHLOROMETHANE                  | TR1 | 1   | UG/L | U |  | 1   | 1   |
| E. Tr. Effluent | 10/25/99 | THALLIUM                       | TR1 | 1.1 | UG/L | U |  | 1.1 | 1   |
| E. Tr. Influent | 10/25/99 | THALLIUM                       | TR1 | 1.1 | UG/L | U |  | 1.1 | 1   |

**Appendix B**  
**East Trenches Analytical Data**

|                 |          |                           |     |        |      |   |  |      |     |
|-----------------|----------|---------------------------|-----|--------|------|---|--|------|-----|
| E. Tr. Effluent | 10/25/99 | BARIUM                    | TR1 | 15.4   | UG/L | B |  | 0.05 | 1   |
| E. Tr. Influent | 10/25/99 | BARIUM                    | TR1 | 174    | UG/L |   |  | 0.05 | 1   |
| E. Tr. Effluent | 10/25/99 | NAPHTHALENE               | TR1 | 1      | UG/L | U |  | 1    | 1   |
| E. Tr. Influent | 10/25/99 | NAPHTHALENE               | TR1 | 250    | UG/L | U |  | 250  | 250 |
| 23296           | 10/28/99 | NAPHTHALENE               | TR1 | 20     | UG/L | U |  | 20   | 20  |
| 95199           | 10/25/99 | NAPHTHALENE               | TR1 | 2      | UG/L | U |  | 2    | 2   |
| 95099           | 10/24/99 | NAPHTHALENE               | TR1 | 0.2    | UG/L | J |  | 1    | 1   |
| E. Tr. Effluent | 10/25/99 | ETHYLBENZENE              | TR1 | 1      | UG/L | U |  | 1    | 1   |
| E. Tr. Influent | 10/25/99 | ETHYLBENZENE              | TR1 | 250    | UG/L | U |  | 250  | 250 |
| 23296           | 10/28/99 | ETHYLBENZENE              | TR1 | 20     | UG/L | U |  | 20   | 20  |
| 95199           | 10/25/99 | ETHYLBENZENE              | TR1 | 2      | UG/L | U |  | 2    | 2   |
| 95099           | 10/24/99 | ETHYLBENZENE              | TR1 | 1      | UG/L | U |  | 1    | 1   |
| E. Tr. Effluent | 10/25/99 | p-CHLOROTOLUENE           | TR1 | 1      | UG/L | U |  | 1    | 1   |
| E. Tr. Influent | 10/25/99 | p-CHLOROTOLUENE           | TR1 | 250    | UG/L | U |  | 250  | 250 |
| 23296           | 10/28/99 | p-CHLOROTOLUENE           | TR1 | 20     | UG/L | U |  | 20   | 20  |
| 95199           | 10/25/99 | p-CHLOROTOLUENE           | TR1 | 2      | UG/L | U |  | 2    | 2   |
| 95099           | 10/24/99 | p-CHLOROTOLUENE           | TR1 | 1      | UG/L | U |  | 1    | 1   |
| E. Tr. Effluent | 10/25/99 | 1,3-DICHLOROBENZENE       | TR1 | 1      | UG/L | U |  | 1    | 1   |
| E. Tr. Influent | 10/25/99 | 1,3-DICHLOROBENZENE       | TR1 | 250    | UG/L | U |  | 250  | 250 |
| 23296           | 10/28/99 | 1,3-DICHLOROBENZENE       | TR1 | 20     | UG/L | U |  | 20   | 20  |
| 95199           | 10/25/99 | 1,3-DICHLOROBENZENE       | TR1 | 2      | UG/L | U |  | 2    | 2   |
| 95099           | 10/24/99 | 1,3-DICHLOROBENZENE       | TR1 | 1      | UG/L | U |  | 1    | 1   |
| E. Tr. Effluent | 10/25/99 | CHLOROFORM                | TR1 | 6      | UG/L |   |  | 1    | 1   |
| E. Tr. Influent | 10/25/99 | CHLOROFORM                | TR1 | 120    | UG/L | J |  | 250  | 250 |
| 23296           | 10/28/99 | CHLOROFORM                | TR1 | 8      | UG/L | J |  | 20   | 20  |
| 95199           | 10/25/99 | CHLOROFORM                | TR1 | 0.3    | UG/L | J |  | 2    | 2   |
| 95099           | 10/24/99 | CHLOROFORM                | TR1 | 0.4    | UG/L | J |  | 1    | 1   |
| E. Tr. Effluent | 10/25/99 | 1,1,1-TRICHLOROETHANE     | TR1 | 1      | UG/L | U |  | 1    | 1   |
| E. Tr. Influent | 10/25/99 | 1,1,1-TRICHLOROETHANE     | TR1 | 250    | UG/L | U |  | 250  | 250 |
| 23296           | 10/28/99 | 1,1,1-TRICHLOROETHANE     | TR1 | 20     | UG/L | U |  | 20   | 20  |
| 95199           | 10/25/99 | 1,1,1-TRICHLOROETHANE     | TR1 | 2      | UG/L | U |  | 2    | 2   |
| 95099           | 10/24/99 | 1,1,1-TRICHLOROETHANE     | TR1 | 1      | UG/L | U |  | 1    | 1   |
| E. Tr. Effluent | 10/25/99 | MAGNESIUM                 | TR1 | 17700  | UG/L |   |  | 1.6  | 1   |
| E. Tr. Influent | 10/25/99 | MAGNESIUM                 | TR1 | 17600  | UG/L |   |  | 1.6  | 1   |
| E. Tr. Effluent | 10/25/99 | CADMIUM                   | TR1 | 0.1    | UG/L | B |  | 0.1  | 1   |
| E. Tr. Influent | 10/25/99 | CADMIUM                   | TR1 | 0.12   | UG/L | B |  | 0.1  | 1   |
| E. Tr. Effluent | 10/25/99 | CALCIUM                   | TR1 | 12400  | UG/L |   |  | 5.6  | 1   |
| E. Tr. Influent | 10/25/99 | CALCIUM                   | TR1 | 112000 | UG/L |   |  | 5.6  | 1   |
| E. Tr. Effluent | 10/25/99 | TRICHLOROETHENE           | TR1 | 1      | UG/L | U |  | 1    | 1   |
| E. Tr. Influent | 10/25/99 | TRICHLOROETHENE           | TR1 | 3700   | UG/L |   |  | 250  | 250 |
| 23296           | 10/28/99 | TRICHLOROETHENE           | TR1 | 280    | UG/L |   |  | 20   | 20  |
| 95199           | 10/25/99 | TRICHLOROETHENE           | TR1 | 38     | UG/L |   |  | 2    | 2   |
| 95099           | 10/24/99 | TRICHLOROETHENE           | TR1 | 1      | UG/L | U |  | 1    | 1   |
| E. Tr. Effluent | 10/25/99 | tert-BUTYLBENZENE         | TR1 | 11     | UG/L | U |  | 1    | 1   |
| E. Tr. Influent | 10/25/99 | tert-BUTYLBENZENE         | TR1 | 250    | UG/L | U |  | 250  | 250 |
| 23296           | 10/28/99 | tert-BUTYLBENZENE         | TR1 | 20     | UG/L | U |  | 20   | 20  |
| 95199           | 10/25/99 | tert-BUTYLBENZENE         | TR1 | 2      | UG/L | U |  | 2    | 2   |
| 95099           | 10/24/99 | tert-BUTYLBENZENE         | TR1 | 1      | UG/L | U |  | 1    | 1   |
| E. Tr. Effluent | 10/25/99 | trans-1,3-DICHLOROPROPENE | TR1 | 1      | UG/L | U |  | 1    | 1   |
| E. Tr. Influent | 10/25/99 | trans-1,3-DICHLOROPROPENE | TR1 | 250    | UG/L | U |  | 250  | 250 |
| 23296           | 10/28/99 | trans-1,3-DICHLOROPROPENE | TR1 | 20     | UG/L | U |  | 20   | 20  |
| 95199           | 10/25/99 | trans-1,3-DICHLOROPROPENE | TR1 | 2      | UG/L | U |  | 2    | 2   |
| 95099           | 10/24/99 | trans-1,3-DICHLOROPROPENE | TR1 | 1      | UG/L | U |  | 1    | 1   |
| E. Tr. Effluent | 10/25/99 | TETRACHLOROETHENE         | TR1 | 1      | UG/L | U |  | 1    | 1   |
| E. Tr. Influent | 10/25/99 | TETRACHLOROETHENE         | TR1 | 250    | UG/L |   |  | 250  | 250 |
| 23296           | 10/28/99 | TETRACHLOROETHENE         | TR1 | 10     | UG/L | J |  | 20   | 20  |
| 95199           | 10/25/99 | TETRACHLOROETHENE         | TR1 | 1      | UG/L | J |  | 2    | 2   |
| 95099           | 10/24/99 | TETRACHLOROETHENE         | TR1 | 1      | UG/L | U |  | 1    | 1   |
| E. Tr. Effluent | 10/25/99 | BROMOMETHANE              | TR1 | 1      | UG/L | U |  | 1    | 1   |
| E. Tr. Influent | 10/25/99 | BROMOMETHANE              | TR1 | 250    | UG/L | U |  | 250  | 250 |
| 23296           | 10/28/99 | BROMOMETHANE              | TR1 | 20     | UG/L | U |  | 20   | 20  |
| 95199           | 10/25/99 | BROMOMETHANE              | TR1 | 2      | UG/L | U |  | 2    | 2   |
| 95099           | 10/24/99 | BROMOMETHANE              | TR1 | 1      | UG/L | U |  | 1    | 1   |
| E. Tr. Effluent | 10/25/99 | MOLYBDENUM                | TR1 | 11.1   | UG/L | B |  | 0.28 | 1   |
| E. Tr. Influent | 10/25/99 | MOLYBDENUM                | TR1 | 2.7    | UG/L | B |  | 0.28 | 1   |
| E. Tr. Effluent | 10/25/99 | SODIUM                    | TR1 | 51200  | UG/L |   |  | 7    | 1   |
| E. Tr. Influent | 10/25/99 | SODIUM                    | TR1 | 48600  | UG/L |   |  | 7    | 1   |
| E. Tr. Effluent | 10/25/99 | CHLOROETHANE              | TR1 | 1      | UG/L | U |  | 1    | 1   |

Appendix B  
East Trenches Analytical Data

|                 |          |                           |     |      |      |   |  |      |     |
|-----------------|----------|---------------------------|-----|------|------|---|--|------|-----|
| E. Tr. Influent | 10/25/99 | CHLOROETHANE              | TR1 | 250  | UG/L | U |  | 250  | 250 |
| 23296           | 10/28/99 | CHLOROETHANE              | TR1 | 20   | UG/L | U |  | 20   | 20  |
| 95199           | 10/25/99 | CHLOROETHANE              | TR1 | 2    | UG/L | U |  | 2    | 2   |
| 95099           | 10/24/99 | CHLOROETHANE              | TR1 | 1    | UG/L | U |  | 1    | 1   |
| E. Tr. Effluent | 10/25/99 | SELENIUM                  | TR1 | 1    | UG/L | U |  | 1    | 1   |
| E. Tr. Influent | 10/25/99 | SELENIUM                  | TR1 | 1.7  | UG/L | B |  | 1    | 1   |
| E. Tr. Effluent | 10/25/99 | o-CHLOROTOLUENE           | TR1 | 1    | UG/L | U |  | 1    | 1   |
| E. Tr. Influent | 10/25/99 | o-CHLOROTOLUENE           | TR1 | 250  | UG/L | U |  | 250  | 250 |
| 23296           | 10/28/99 | o-CHLOROTOLUENE           | TR1 | 20   | UG/L | U |  | 20   | 20  |
| 95199           | 10/25/99 | o-CHLOROTOLUENE           | TR1 | 2    | UG/L | U |  | 2    | 2   |
| 95099           | 10/24/99 | o-CHLOROTOLUENE           | TR1 | 1    | UG/L | U |  | 1    | 1   |
| E. Tr. Effluent | 10/25/99 | BENZENE, 1,2,4-TRIMETHYL  | TR1 | 1    | UG/L | U |  | 1    | 1   |
| E. Tr. Influent | 10/25/99 | BENZENE, 1,2,4-TRIMETHYL  | TR1 | 250  | UG/L | U |  | 250  | 250 |
| 23296           | 10/28/99 | BENZENE, 1,2,4-TRIMETHYL  | TR1 | 20   | UG/L | U |  | 20   | 20  |
| 95199           | 10/25/99 | BENZENE, 1,2,4-TRIMETHYL  | TR1 | 2    | UG/L | U |  | 2    | 2   |
| 95099           | 10/24/99 | BENZENE, 1,2,4-TRIMETHYL  | TR1 | 1    | UG/L | U |  | 1    | 1   |
| E. Tr. Effluent | 10/25/99 | 4-ISOPROPYLtolUENE        | TR1 | 1    | UG/L | U |  | 1    | 1   |
| E. Tr. Influent | 10/25/99 | 4-ISOPROPYLtolUENE        | TR1 | 250  | UG/L | U |  | 250  | 250 |
| 23296           | 10/28/99 | 4-ISOPROPYLtolUENE        | TR1 | 20   | UG/L | U |  | 20   | 20  |
| 95199           | 10/25/99 | 4-ISOPROPYLtolUENE        | TR1 | 2    | UG/L | U |  | 2    | 2   |
| 95099           | 10/24/99 | 4-ISOPROPYLtolUENE        | TR1 | 1    | UG/L | U |  | 1    | 1   |
| E. Tr. Effluent | 10/25/99 | cis-1,3-DICHLOROPROPENE   | TR1 | 1    | UG/L | U |  | 1    | 1   |
| E. Tr. Influent | 10/25/99 | cis-1,3-DICHLOROPROPENE   | TR1 | 250  | UG/L | U |  | 250  | 250 |
| 23296           | 10/28/99 | cis-1,3-DICHLOROPROPENE   | TR1 | 20   | UG/L | U |  | 20   | 20  |
| 95199           | 10/25/99 | cis-1,3-DICHLOROPROPENE   | TR1 | 2    | UG/L | U |  | 2    | 2   |
| 95099           | 10/24/99 | cis-1,3-DICHLOROPROPENE   | TR1 | 1    | UG/L | U |  | 1    | 1   |
| E. Tr. Effluent | 10/25/99 | DIBROMOMETHANE            | TR1 | 1    | UG/L | U |  | 1    | 1   |
| E. Tr. Influent | 10/25/99 | DIBROMOMETHANE            | TR1 | 250  | UG/L | U |  | 250  | 250 |
| 23296           | 10/28/99 | DIBROMOMETHANE            | TR1 | 20   | UG/L | U |  | 20   | 20  |
| 95199           | 10/25/99 | DIBROMOMETHANE            | TR1 | 2    | UG/L | U |  | 2    | 2   |
| 95099           | 10/24/99 | DIBROMOMETHANE            | TR1 | 1    | UG/L | U |  | 1    | 1   |
| E. Tr. Effluent | 10/25/99 | BROMOCHLOROMETHANE        | TR1 | 1    | UG/L | U |  | 1    | 1   |
| E. Tr. Influent | 10/25/99 | BROMOCHLOROMETHANE        | TR1 | 250  | UG/L | U |  | 250  | 250 |
| 23296           | 10/28/99 | BROMOCHLOROMETHANE        | TR1 | 20   | UG/L | U |  | 20   | 20  |
| 95199           | 10/25/99 | BROMOCHLOROMETHANE        | TR1 | 2    | UG/L | U |  | 2    | 2   |
| 95099           | 10/24/99 | BROMOCHLOROMETHANE        | TR1 | 1    | UG/L | U |  | 1    | 1   |
| E. Tr. Effluent | 10/25/99 | LITHIUM                   | TR1 | 15.1 | UG/L | B |  | 0.02 | 1   |
| E. Tr. Influent | 10/25/99 | LITHIUM                   | TR1 | 15.4 | UG/L | B |  | 0.02 | 1   |
| E. Tr. Effluent | 10/25/99 | POTASSIUM                 | TR1 | 1670 | UG/L | B |  | 144  | 1   |
| E. Tr. Influent | 10/25/99 | POTASSIUM                 | TR1 | 1640 | UG/L | B |  | 144  | 1   |
| E. Tr. Effluent | 10/25/99 | ANTIMONY                  | TR1 | 0.52 | UG/L | U |  | 0.52 | 1   |
| E. Tr. Influent | 10/25/99 | ANTIMONY                  | TR1 | 0.63 | UG/L | B |  | 0.52 | 1   |
| E. Tr. Effluent | 10/25/99 | ARSENIC                   | TR1 | 0.68 | UG/L | U |  | 0.68 | 1   |
| E. Tr. Influent | 10/25/99 | ARSENIC                   | TR1 | 0.68 | UG/L | U |  | 0.68 | 1   |
| E. Tr. Effluent | 10/25/99 | BERYLLIUM                 | TR1 | 0.02 | UG/L | U |  | 0.02 | 1   |
| E. Tr. Influent | 10/25/99 | BERYLLIUM                 | TR1 | 0.02 | UG/L | U |  | 0.02 | 1   |
| E. Tr. Effluent | 10/25/99 | COBALT                    | TR1 | 0.25 | UG/L | B |  | 0.18 | 1   |
| E. Tr. Influent | 10/25/99 | COBALT                    | TR1 | 0.2  | UG/L | B |  | 0.18 | 1   |
| E. Tr. Effluent | 10/25/99 | COPPER                    | TR1 | 0.54 | UG/L | B |  | 0.12 | 1   |
| E. Tr. Influent | 10/25/99 | COPPER                    | TR1 | 1.1  | UG/L | B |  | 0.12 | 1   |
| E. Tr. Effluent | 10/25/99 | VINYL CHLORIDE            | TR1 | 1    | UG/L | J |  | 1    | 1   |
| E. Tr. Influent | 10/25/99 | VINYL CHLORIDE            | TR1 | 250  | UG/L | U |  | 250  | 250 |
| 23296           | 10/28/99 | VINYL CHLORIDE            | TR1 | 20   | UG/L | U |  | 20   | 20  |
| 95199           | 10/25/99 | VINYL CHLORIDE            | TR1 | 2    | UG/L | U |  | 2    | 2   |
| 95099           | 10/24/99 | VINYL CHLORIDE            | TR1 | 1    | UG/L | U |  | 1    | 1   |
| E. Tr. Effluent | 10/25/99 | 1,1,2,2-TETRACHLOROETHANE | TR1 | 1    | UG/L | U |  | 1    | 1   |
| E. Tr. Influent | 10/25/99 | 1,1,2,2-TETRACHLOROETHANE | TR1 | 250  | UG/L | U |  | 250  | 250 |
| 23296           | 10/28/99 | 1,1,2,2-TETRACHLOROETHANE | TR1 | 20   | UG/L | U |  | 20   | 20  |
| 95199           | 10/25/99 | 1,1,2,2-TETRACHLOROETHANE | TR1 | 2    | UG/L | U |  | 2    | 2   |
| 95099           | 10/24/99 | 1,1,2,2-TETRACHLOROETHANE | TR1 | 1    | UG/L | U |  | 1    | 1   |
| E. Tr. Effluent | 10/25/99 | HEXACHLOROBUTADIENE       | TR1 | 1    | UG/L | U |  | 1    | 1   |
| E. Tr. Influent | 10/25/99 | HEXACHLOROBUTADIENE       | TR1 | 250  | UG/L | U |  | 250  | 250 |
| 23296           | 10/28/99 | HEXACHLOROBUTADIENE       | TR1 | 20   | UG/L | U |  | 20   | 20  |
| 95199           | 10/25/99 | HEXACHLOROBUTADIENE       | TR1 | 2    | UG/L | U |  | 2    | 2   |
| 95099           | 10/24/99 | HEXACHLOROBUTADIENE       | TR1 | 1    | UG/L | U |  | 1    | 1   |
| E. Tr. Effluent | 10/25/99 | 1,2,3-TRICHLOROPROPANE    | TR1 | 1    | UG/L | U |  | 1    | 1   |
| E. Tr. Influent | 10/25/99 | 1,2,3-TRICHLOROPROPANE    | TR1 | 250  | UG/L | U |  | 250  | 250 |
| 23296           | 10/28/99 | 1,2,3-TRICHLOROPROPANE    | TR1 | 20   | UG/L | U |  | 20   | 20  |

Appendix B  
East Trenches Analytical Data

|                 |          |                        |     |     |      |   |  |     |     |
|-----------------|----------|------------------------|-----|-----|------|---|--|-----|-----|
| 95199           | 10/25/99 | 1,2,3-TRICHLOROPROPANE | TR1 | 2   | UG/L | U |  | 2   | 2   |
| 95099           | 10/24/99 | 1,2,3-TRICHLOROPROPANE | TR1 | 1   | UG/L | U |  | 1   | 1   |
| E. Tr. Effluent | 10/25/99 | ISOPROPYLBENZENE       | TR1 | 1   | UG/L | U |  | 1   | 1   |
| E. Tr. Influent | 10/25/99 | ISOPROPYLBENZENE       | TR1 | 250 | UG/L | U |  | 250 | 250 |
| 23296           | 10/28/99 | ISOPROPYLBENZENE       | TR1 | 20  | UG/L | U |  | 20  | 20  |
| 95199           | 10/25/99 | ISOPROPYLBENZENE       | TR1 | 2   | UG/L | U |  | 2   | 2   |
| 95099           | 10/24/99 | ISOPROPYLBENZENE       | TR1 | 1   | UG/L | U |  | 1   | 1   |

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